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HORTICULTURAL SOCIETY

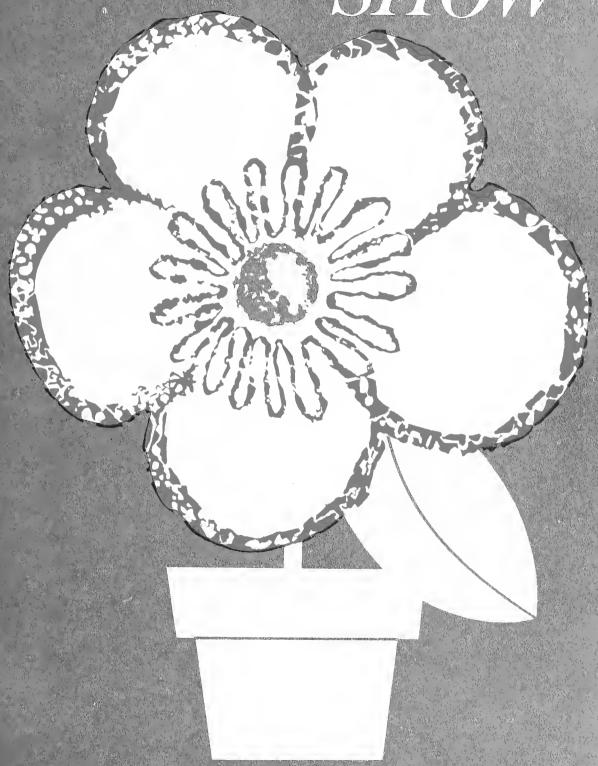
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Join the Pennsylvania Horticultural Society during the 1966 SPRING FLOWER SHOW, March 12-17.

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THE PENNSYLVANIA HORTICULTURAL SOCIETY



325 Walnut Street, Independence National Historical Park, Philadelphia, Pa. 19106



NATURAL BEAUTY IN TOWN AND COUNTRY

In a metropolitan area like Philadelphia, natural beauty means gardens and lawns, parks and precious wild areas, a window full of house-plants, a strip of green along the front of a modern building, a row of colorful window boxes along a crowded block. The classic phrase is ornamental horticulture, plants grown and trained to please the eye and invite the soul.

That is what we have tried to bring you in this show. The Pennsylvania Horticultural Society is founded on the idea that each of us can gain pleasure for himself and at the same time give pleasure to others by growing beautiful plants and creating pleasant gardens.

In this show you will find suggestions for almost any situation where plants can be grown—windows, porches, patios, and gardens. There is information about a wide range of subjects from propagation to tree surgery. Our exhibitors include an unprecedented number of organizations for the amateur—garden clubs, plant societies, and educational institutions. In all of this, our aim has been to show the diverse ways in which people can enjoy horticulture.

More than 1000 of our members have worked on this show. We hope you like it.

John G. Williams, President The Pennsylvania Horticultural Society

Sudden move to Ceylon

A business executive knew his company was going to send him abroad for three years. Quite unexpectedly, however, it turned out he had to leave for Ceylon on short notice. Instead of weeks, he had only hours to get ready.

He and his wife came to Girard's Estate and Financial Planning Division. Officers there called in specialists from the Investment Division and the Real Estate Division. We helped the couple arrange for the rental of their house, for pay checks to be automatically deposited in their checking account, to have regular sums transferred to an investment account which Girard manages, to keep insurance premiums paid, to care for other aspects of their financial affairs.

In addition, we worked out a plan for a life insurance trust which will enable Girard as trustee to manage finances for the children if husband or wife, or both, should fail to return. With the family lawyer, we met the husband at the airport just before his plane left. He signed all the papers needed to make his plan effective.

We don't like to do financial planning on this kind of timetable, but we have the experience and knowledge and ability to do it when necessary.

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NATURAL BEAUTY IN THE PARK

—THE WISSAHICKON VALLEY

Taken from "Guide to the Wissahickon Valley" by—Frances Ballard and Marion Rivinus

One of Pennsylvania's natural wonders is the Wissahickon Valley, a miniature Alpine gorge in Fairmount Park between Chestnut Hill and Roxborough. The gorge extends some six and a half miles from a point just below the Philadelphia City line in Chestnut Hill to the junction of Wissahickon Creek and the Schuylkill River at Ridge Avenue. The surrounding park land covers about 1250 acres and contains a wealth of trees, plants, birds and small animals—not to mention some of the oldest geological formations in North America.

THE CARRIAGE DRIVE

A carriage drive, suitable for walking as well as driving, runs through the Valley, making its charms easily accessible. The following description is taken from the informative "Guide to the Wissahickon Valley" by Frances Ballard and Marion Rivinus, published by the Friends of the Wissahickon. It is available at their headquarters, 8503 Germantown Avenue, Philadelphia, Pa. 19118.

"Starting at the turn of the East River Drive where it joins the Lincoln Drive, there is a charming rustic rest house, much in keeping with its surroundings. This house and similar ones were built by the W.P.A. during the depression. Automobiles may be parked here.

The carriage drive then follows the Wissahickon Creek all the way to Northwestern Avenue.

The drive commences on the east bank, but shortly crosses a stone bridge, built in 1896, to the western shore. One should pause here to read the Battle Tablet on the bridge commemorating the Battle of Germantown. This is also the official start of the area known as the Upper Wissahickon.

Shortly after crossing the bridge, one can see the Indian Profile Rock, high above on the left. Just before reaching Hermit's Lane, leading up to Roxborough, are the sites of the Log Cabin and Maple Springs Hotel.

Passing under the Walnut Lane Bridge, a most impressive sight, the drive continues until one can view "Glen Fern," the old Livezey house on the opposite shore. The Walnut Lane Bridge was erected in 1896 and for some years was considered the longest concrete bridge in the world.

Abreast the Livezey house one can cross the Creek on stepping stones and inspect this charming structure. It has been the headquarters of the Valley Green Canoe Club since 1909.

Still following the drive, one glimpses the artistic bridge over Devil's Pool, through the trees on the far side of the Creek. Around the bend, one comes to Valley Green Inn. Here there are parking places for automobiles on each side of the Springfield Avenue Bridge and a picnic area on the bank of the stream in front of the Inn. The old sheds remain where equestrians may tether their horses. The Springfield Avenue Bridge, with its picturesque arch, is probably the most photographed spot in the Valley. A foot path along the Creek, ending at three stone seats, was built by the Friends of the Wissahickon. The seats are a memorial to Mrs. Frank Miles Day.

Automobiles are allowed to traverse the drive here for a short distance to continue their way up Wise Mill Road to Roxborough or from that area to Chestnut Hill.

A short distance beyond Wise Mill Road is the first drinking fountain erected in Philadelphia. It bears the date of 1854 and was the joint gift of John Cook and Charles Megargee, whose mill was the last industrial establishment left standing along the Creek. Over the fountain, which has a marble basin, is cut the legend, "Pro bono Publico" and below "Esto perpetua" (For the public good; let it remain forever).

REX AVENUE BRIDGE

Opposite the end of the Rex Avenue Bridge, sometimes called Indian Rock Bridge, stood the old Indian Rock Hotel facing on the drive. Just after passing the Rex Avenue Bridge, a view of the statue of Tedyscung can be glimpsed, high up on the Council Rock across the Creek.

Next, one comes to the Red Covered Bridge at the foot of the Thomas Mill Road.

Some distance beyond, the Bells Mill Road crosses the drive and continues up to Roxborough. There is a guard house at the crossing and opposite a small parking space for autos.

Finally, after a short rise, the drive terminates at Harpers Meadows in Andorra, at the crossroads of Northwestern Avenue, Barren Hill Road and Thomas Road. The Creek continues to Germantown Avenue and up to its source, near Montgomeryville."

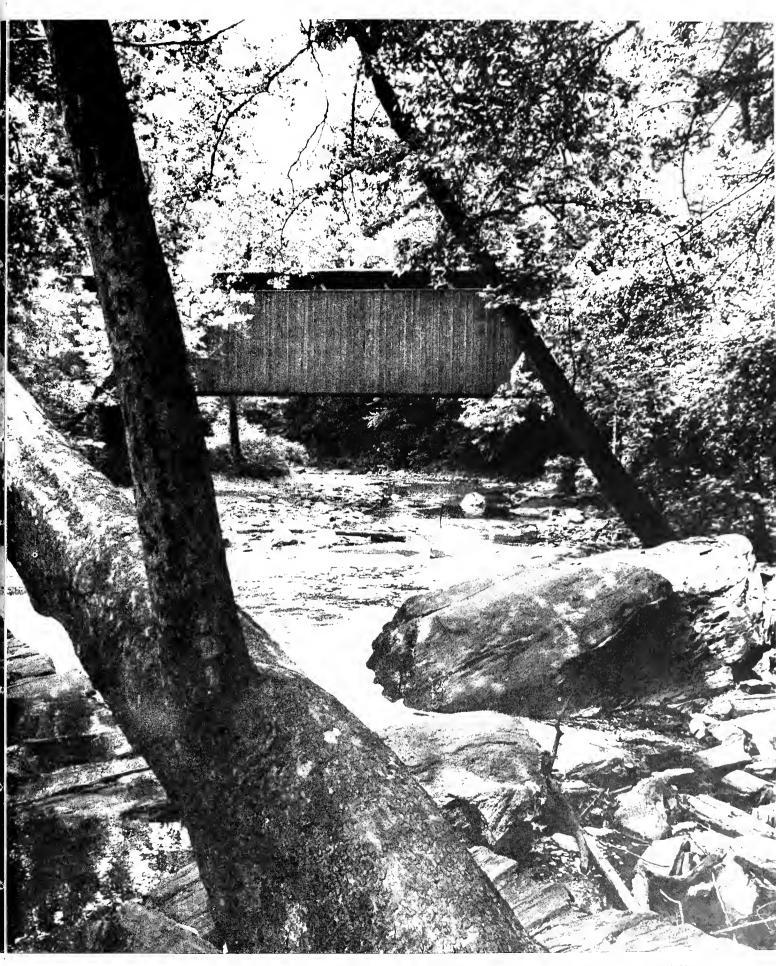
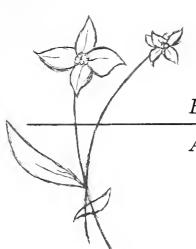


Photo by Joseph Nettis



EDUCATIONAL ENTERTAINMENT

AT THE SHOW

As part of its plan to make this Flower Show informative as well as beautiful, the Pennsylvania Horticultural Society has arranged for continuous lectures, talks and films in the auditorium next to the exhibition spaces on the lower floor.

The principal lectures will be at 2:00 p.m. each day and will include presentations by Roy J. Kersey, noted horticulturist and Director of the TV Garden Club; Robert E. Montgomery, President of the Pennsylvania Bonsai Society; Anne Wertsner Wood (Mrs. Harry Wood) and Mrs. Herbert H. Greger, well-known flower arrangers, teachers and speakers; Ernesta D. Ballard, Executive Secretary of the PHS and authority on Indoor Gardening, and Richard Thomson, author of "Roses for Pleasure."

There will be talks by Extension Specialists from Pennsylvania State University each morning, afternoon and evening.

Between the talks and the daily lecture show patrons can view films on subjects of interest to gardeners and horticulturists.

Admission to all the programs is free. The complete schedule appears below:

Saturday

zara. aug	
11:00 a.m.	Talk: Spring Lawn Care
12:00 noon	Film: The Colonial Naturalist
2:00 p.m. I	Lecture: PROPAGATION—
	ROY J. KERSEY
4:30 p.m.	Talk: Fertilizing and Liming
5:30 p.m.	Film: Learning About Gardening
6:00 p.m.	Film: The Myths and the Parallels
6:30 p.m.	Film: Arranging Flowers
7:00 p.m.	Film: Island of Green
Sunday	
•	2037017 20777
2:00 p.m. L	ecture: BONSAI—ROBERT E

2.00 p.m.	Lecture. DONSAI—ROBERT E.	
	${ t MONTGOMERY}$	
4:00 p.m.	Talk: Spring Lawn Care	
5.00 n m	Film . Learning About Gardenir	. ,

5:00 p.m. Film: Learning About Gardening 5:30 p.m. Film: The Myths and the Parallels 6:00 p.m. Film: The Colonial Naturalist

Monday 11:00 a.m. Talk: Ornamental Insect Controls 12:00 noon Film: The Colonial Naturalist 2:00 p.m. Lecture: FLOWER ARRANGING FOR PLEASURE— ANNE WERTSNER WOOD 4:00 p.m. Talk: Maintenance of Shrubs 5:00 p.m. Film: Learning About Gardening 5:30 p.m. Film: The Myths and the Parallels 6:00 p.m. Film: Arranging Flowers

6:00 p.m. Film: Arranging Flowers6:30 p.m. Film: Island of Green7:30 p.m. Talk: Spring Lawn Care

Tuesday

11:00 a.m.	Talk: Home Fruit Culture	
12:00 noon	Film: The Colonial Naturalist	
2:00 p.m. I	ecture: INDOOR GARDENING	- -
	DDMDOWN D DATEAT	· T

	ERNESIA D. DALLARD
4:00 p.m.	Talk: Diseases of Ornamentals
5:00 p.m.	Film: Learning about Gardening
5:30 p.m.	Film: The Myths and the Parallels

6:00 p.m.	Film: Arranging Flowers
6:30 n m	Film. The Wonderful World of Insects

7:00 p.m. Talk: Ornamental Shrubs

Wednesday

11:00 a.m.	Talk:	Your Home Greenhouse
12:00 noon	Film:	The Colonial Naturalist

2:00 p.m. Lecture: ROSES—

RICHARD THOMSON

4:00 p.m.	Talk: Grass Substitutes
5:00 p.m.	Film: Learning about Gardening
5:30 p.m.	Film: The Myths and the Parallels
6:00 p.m.	Film: Arranging Flowers

6:30 p.m. Film: The Wonderful World of Insects 7:00 p.m. Talk: Fertilizing and Liming

Thursday

11:00 a.m.	Talk: Ornamental and Turf Insects
12:00 noon	Film: The Colonial Naturalist

2:00 p.m. Lecture: FLOWER ARRANGING—MRS. HERBERT H.

GREGER

4:00 p.m.	Talk: Lawn Weed Control
5:00 p.m.	Film: Learning about Gardening
5:30 p.m.	Film: The Myths and the Parallels

6:00 p.m. Film: Arranging Flowers

6:30 p.m. Film: The Wonderful World of Insects

00 p.m. Film: The Colonial Naturalist 7:00 p.m. Talk: Turf Diseases



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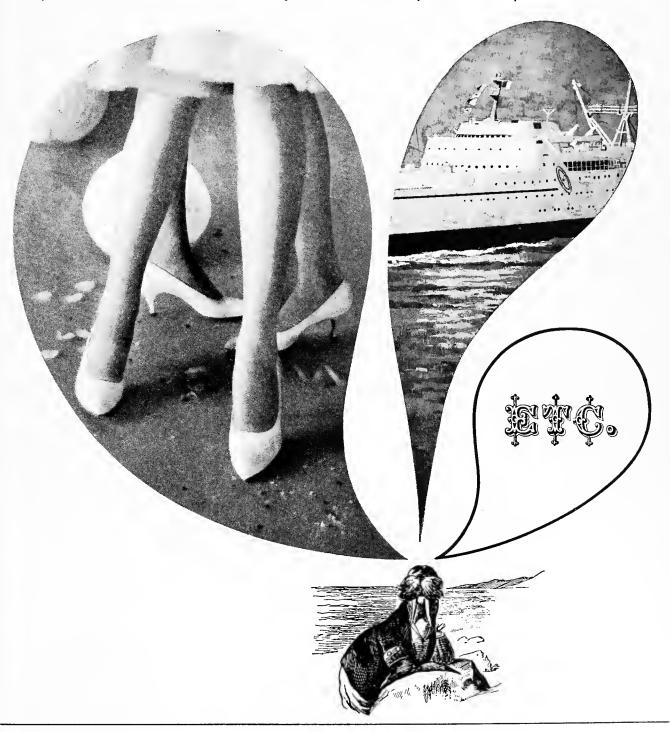
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COMPETITIVE CLASSES

(See Floor Plan on Pages 28-29 for location of classes)

SATURDAY, MARCH 12

Class 501—Room section with indoor plants and arrangements

Class 502—A table set for a wedding anniversary

Arrangements

Class 503—Carnations in a formal container

Class 504—Natural Beauty

Class 505—The Sea

Horticulture

Classes 600 through 616

Narcissus, hyacinths, tulips, hanging baskets, bonsai, espaliers, window sill collections, topiary, ferns, miniature orchids, begonias, forced perennials, herbs Classes 650 through 653

Rooted cuttings, window greenhouses, window boxes

Gardens

Class 901—Section of a garden featuring a place for cooking and eating

Class 902—Section of a garden with water

Class 903-A formal garden

Class 904—A naturalistic garden

SUNDAY, MARCH 13

Classes 501, 502 (see Saturday classes)

Arrangements

Class 506—Dramatic simplicity

Class 507—Roses

Class 508—The Doll House

Horticulture

Classes 600 through 616 (see Saturday classes)

Classes 650 through 653 (see Saturday classes)

Gardens

Classes 901, 902, 903, 904 (see Saturday classes)

MONDAY, MARCH 14

Classes 501, 502 (see Saturday classes)

Arrangements

Class 509—Harmony

Class 510—Challenge class

Class 511—A Fantasy

Horticulture

Classes 700 through 715

Narcissus, hyacinths, muscari, hanging baskets, bonsai, alpine gardens, bromeliads, topiary, azaleas, gesneriads, miniature gardens, orchids, dwarf geraniums Classes 650 through 653 (see Saturday classes)

Gardens

Classes 901, 902, 903, 904 (see Saturday classes)

TUESDAY, MARCH 15

Class 512—Room section with indoor plants and arrangements

Class 513—A table set for a wedding anniversary

Arrangements

Class 514—Encore

Class 515—Country Life

Class 516—Shades and Accent

Horticulture

Classes 700 through 715 (see Monday classes)

Classes 650 through 653 (see Saturday classes)

Gardens

Classes 901, 902, 903, 904 (see Saturday classes)

WEDNESDAY, MARCH 16

Classes 512, 513 (see Tuesday classes)

Arrangements

Class 517—Natural Beauty

Class 518—For all seasons

Class 519—Gay as a Bird

Horticulture

Classes 800 through 815

Narcissus, hyacinths, tulips, hanging baskets, standards, begonias, succulents, terrace plants, miniature bonsai, indoor bonsai, orchids, vines, foliage plants

Classes 650 through 653 (see Saturday classes)

Gardens

Classes 901, 902, 903, 904 (see Saturday classes)

THURSDAY, MARCH 17

Classes 512, 513 (see Tuesday classes)

Arrangements

Class 520—Art in Advertising

Class 521—Orchids with Silk

Class 522—Bottles and Beauty

Horticulture

Classes 800 through 815 (see Wednesday classes)

Classes 650 through 653 (see Saturday classes)

Gardens

Classes 901, 902, 903, 904 (see Saturday classes)



THE TINICUM WILDLIFE PRESERVE

by Allston Jenkins, President, Philadelphia Conservationists, Inc.

Beauty is truth, truth beauty,
—that is all
Ye know on earth,
and all ye need to know
—Keats

In our day of exploding population, demand for housing areas, and multiplication of highways we must seize upon whatever natural areas are still available. Only by such action may we expect to preserve some remnant of the natural beauty which once illumined our landscape and gave rest and true inspiration to our lives. This is especially necessary in urban, semi-urban and suburban localities.

Philadelphia is fortunate in having preserved from destruction a large natural marsh at the edge of the city in Southwest Philadelphia. The marsh was acquired in 1955 as the result of efforts of private individuals

interested in conservation. It was turned over to the City at that time for administration by the Department of Recreation as The Tinicum Wildlife Preserve. It is situated at 86th Street and Darby Creek, two miles from the International Airport, from where it can be reached via Tinicum Avenue. A large directional sign is located just west of the traffic light at the entrance to the airport.

The casual observer may see a marsh only as 'waste' land. For the nature lover, marshes mean flights of ducks, egrets fishing at the water edge, blackbirds singing in the reeds, a muskrat nibbling at the cattail, a turtle sunning on a log, and myriad other fascinating





sights and sounds. The Tinicum Wildlife Preserve has all of these, and they are all easily enjoyed from a road dike which runs the length of the Preserve, with a head-quarters building at the midway point. It seems truly amazing that within the Philadelphia city limits thousands of ducks, geese, and other waterfowl may be seen at one time on a 250-acre Preserve; that rare winter and summer birds come to the Preserve—bald eagle, snowy owl, glossy ibis, avocet; that there are acres of bright yellow bur-marigolds in the fall.

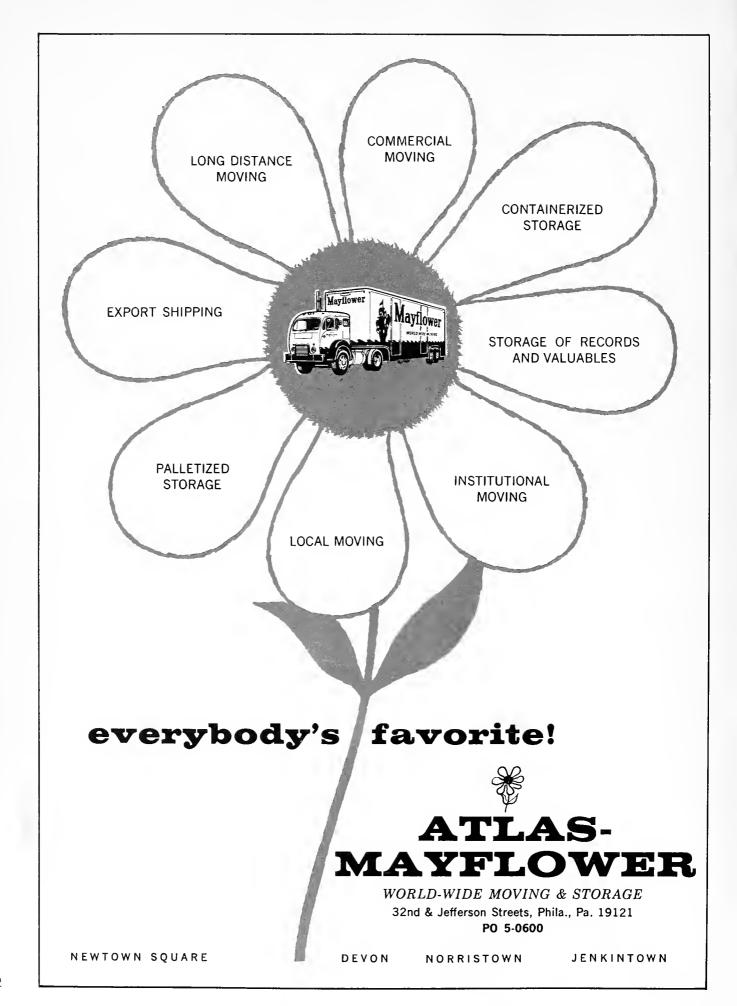
Approximately 40,000 persons visit the Preserve each year to observe its wildlife, to hike, to photograph, to bird watch, and just to get away from traffic, noise and congestion. School children and scout groups are conducted on nature walks under the sponsorship of the Scott Paper Company.

Adjoining the Preserve in Delaware County are some 1,000 additional acres of tidal marsh which have long served as a complementary resting and feeding area for waterfowl and other bird life. The Preserve itself is greatly enhanced by this fine open space environment. The Preserve hopes to bring to the attention of the highway departments, park boards, open space planners, and other appropriate agencies, the natural beauty of these marshlands so that they may be incorporated in the federal and state highway beautification program recently enacted into law. The route planned for the

Delaware River Expressway traverses the southern border of the marshland. The Cobbs Creek Expressway route will border the eastern edge of the Preserve. If the marshlands are preserved these two highways will have a beautification program ready and waiting for them—over three miles of natural beauty from Eastwick to Essington.

The Tinicum Preserve is a spot of unique natural beauty and of unique wildlife interest in a metropolitan area. But in that one sentence of appreciation we find in the word "unique" the alarm signal we all must heed. Tinicum should not be unique; there should be many Tinicums; there can be many Tinicums if we want them sufficiently and work hard enough for them.







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THE ROLE OF THE GARDEN CLUB IN CREATING

NATURAL BEAUTY IN TOWN AND COUNTRY

by Mrs. Fred Mauntel, President, National Council of State Garden Clubs

I appreciate this opportunity to send greetings from National Council of State Garden Clubs to the Spring Flower Show of the Pennsylvania Horticultural Society.

Through the year, an important function of garden clubs in general and our Council in particular has been to work for community beautification and improvement. Through our Landscape Design Schools and our Civic Development work, we have stressed the importance of beauty, as well as cleanliness, order and neatness in our communities. In the words of President Johnson, summing up the conclusions of the White House Conference on Natural Beauty, "We must not only protect from destruction, but must restore what has already been destroyed,—not only save the countryside, but salvage the cities as well."

One of the most valuable results of the beautification projects sponsored by garden clubs is that people have been made aware of the difference between beauty and ugliness in their communities. We have begun to think of natural beauty as an important part of our daily lives and we have come to realize that the crowding together of people in cities denies to many of them access to natural beauty and the enjoyment of the outdoors.

Garden Clubs have been working diligently to identify what our urban and suburban communities need and then to focus attention on these needs. They have sponsored all kinds of projects, from the large landscaping programs of municipal sites to the planting of one or two trees in small city parks.

City dumps have been cleaned up, dull town squares brightened with flowers, sun-drenched streets in prairie towns shaded by the planting of many trees,—all through the efforts of the garden clubs. As a result of a quarter of a century of planting in one Southern town, hundreds of dogwood trees envelope the city in a cloud of creamy-white blossoms each spring. Redbud plantings have done much to lift another to the heights of real beauty.

These and many more projects have been accomplished through the work of garden clubs. Communities throughout the country are beginning to reflect the beauty treatment they have been receiving from garden club projects.

The next step in garden club efforts must be to educate our youth. This is necessary if we expect the next generation to support the programs we are planning today. National Council is not only training its adult members to be more aware of the world about them; it is also training its Junior members and the members of its High School Gardener units to help preserve and create beauty.

Many of the people who have worked to create this flower show are garden club people. They are playing an important role in today's efforts to bring beauty to our towns and cities. As John Muir, the great naturalist said, "Everyone needs beauty as well as bread, places to play in and pray in, where nature may help and cheer and give strength to the body and soul." They are following President Johnson's injunction, when he said, "We can introduce into all our planning, our programs, our building and our growth, a conscious and active concern for the values of beauty."





GARDEN CLUB SPONSORS . . .

1966 SPRING FLOWER SHOW PROGRAM

The Garden Club of Bala Cynwyd
Bryn Mawr Spade and Trowel Garden Club
Chestnut Hill Garden Club
The Community Arts Center Garden Club
Conestoga Garden Club
The Country Gardeners
Cross Country Garden Club
Delanco Garden Club
Drexelbrook Garden Club
The Garden Club of Drexel Hill
The Drumore Flower Club

The Evergreens
Four Counties Garden Club
Four Seasons Garden Club

The Garden Club of Philadelphia The Gardeners

The Garden Workers

The Germantown Horticultural Society

The Herb Society of America; Philadelphia Unit

Hill and Hollow Garden Club Huntingdon Valley Garden Club Junior League Garden Club The Rose Tree Garden Cluh Garden Cluh of Lansdowne Lawrenceville Garden Club

Men's Garden Club of America; Delaware Valley Chapter

Mill Creek Valley Garden Club The Garden Club of Montrose Norristown Garden Club Old Eagle Garden Club Old York Road Garden Club

Outdoor Gardeners of Montgomery County

Penn Valley Garden Club
Pine Ridge Garden Club
Providence Garden Cluh
Random Garden Club
Seed and Weed Garden Club
The Seedlings
Shawosa Garden Club
Spade and Trowel Garden Club
Stony Brook Garden Club
Town and Country Garden Club of Lancaster
Garden Club of Trenton
Trevose Horticultural Society
Twin Valley Garden Club

The Weeders West Chester Planters West Trenton Garden Club Garden Club of Wilmington Wissahickon Garden Club Society of Little Gardens The Bethlehem Garden Club Rosemont Garden Cluh Haddonfield Garden Club Fairless Hills Garden Club Germantown Garden Club Garden Club of Springfield The Century Club of Scranton The Garden Club of Harrisburg Ikebana International The Countryside Gardeners The Garden Club of Princeton The Club of Little Gardens West Chester Garden Club





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Because all garden supplies, regardless of whether they are Grass Seeds, Fertilizers, Insecticides, Tools, Watering Devices or other equipment, are only a means to an end, their value can be determined in terms of RE-SULTS and SATISFACTION only. If your purchase of grass seed hasn't resulted in a satisfactory lawn, it would have been expensive even as an outright gift because of the time and effort lost in its fruitless cultivation. And of even greater consequence is the fact that you had to face a poor lawn, and lose the season as well.

Errors in landscaping cannot be erased and rewritten like notes on a scratch pad — they remain for some time as a stark reminder of misjudgment. Actually there are only short periods of time when certain phases of landscaping can be accomplished efficiently. If

you have missed the boat, so to speak, or if you have made a false start, you have lost a season of enjoyment and possibly some plants and lawn areas, too!

The greatest essential to landscape satisfaction is first, the ADVICE and MATERIAL that will start you in the right direction, and second, the AVAILABILITY OF CONTINUED ADVICE as to CURRENT, LOCAL conditions which directly affect YOUR situation. An extended drought, an overlong period of rain, sudden unseasonal temperature changes, an infestation of Insects and Disease, all require HERE AND NOW ADVICE TO AVOID damage and possible loss of plants. There is little information in print that prepares the homeowner for the contingencies that have become the rule rather than the exception.

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BONSAI—NATURAL BEAUTY

IN SCULPTURED PLANTS

by Robert E. Montgomery, President, Pennsylvania Bonsai Society



Bonsai, the dwarfed trees of Japan and China, are living sculpture. Just as the bronzes of Rodin capture the concentration of The Thinker or the passion of The Kiss, so a twisted cypress bonsai evokes a windswept mountain tree, or a group of upright maples in a tiny pot suggests a forest grove. And unlike statues, the living sculptures of bonsai change with the seasons, greeting spring with buds and flowers and fall with autumn foliage.

Indeed, bonsai had their origin in the fascination which picturesque scenery has for the oriental peoples. The Japanese, especially, delight in the rugged mountains and rocky coasts of their islands. What could be more natural than for the Japanese hiker to bring back a dwarfed tree and grow it in his garden to remind him of his favorite glen or crag.

The history of bonsai can be traced to fourteenth century China, but the art as we know it today was perfected in Japan in the second half of the nineteenth century, the Meiji period. By that time, bonsai fanciers were no longer content to collect and preserve wild specimens. They developed techniques to change the shape of naturally dwarfed specimens and even to create wholly new bonsai from nursery stock by drastic pruning of roots and foliage and by bending branches with copper wire. Repeated pruning and wiring retards the growth, controls the shape, and diminishes the size of leaves until the little tree takes on a venerable appearance. Bonsai should always be aesthetically pleasing, never ugly or grotesque.

Once the desired form has been attained, the trees can be kept alive and healthy almost indefinitely. Some in Japan have been in cultivation for centuries. However, good looks are more prized than age, and it is sometimes possible to produce a good bonsai, suitable for showing as a newly trained tree, in a day and a truly handsome one in ten years.

Almost any woody plant can be made into a bonsai, although those with small leaves or needles are preferred. Small flowers and fruits are also important since they are not reduced in size by training. If the plant is to be wintered in a coldframe, unheated porch or cool greenhouse, hardy varieties, such as are found in local nurseries, can be used. If the plant is to be wintered indoors, a subtropical species such as citrus, fig, jasmine or gardenia should be chosen.

To make a bonsai from an untrained tree, cut away unnecessary branches to reveal the basic structure, and prune the remaining limbs to shorten the height and achieve the proportions of a mature tree. It is essential that the spread of the branches and the height of the tree be in scale with the trunk. To change the shape of a trunk or limb, wrap soft copper wire in a spiral around it, and bend it as desired.

Planting is also important. Choose a Japanese bonsai pot not quite as long as the height of the tree and plant the tree about one third of the distance from one end of the pot to the other, pruning the roots if necessary. Put moss on the soil surface, for beauty and to keep the soil from eroding, and water the tree thoroughly. It is now started as a bonsai and ready to enjoy immediately.

Bonsai techniques are not hard to learn, and the growing of bonsai is a fascinating pastime, although a demanding one. The little trees must be watered daily in the summer, protected in the winter, and pruned frequently. While there are numerous books on the subject, the beginner would be well advised to take one of the short courses which are offered by the Pennsylvania Horticultural Society.





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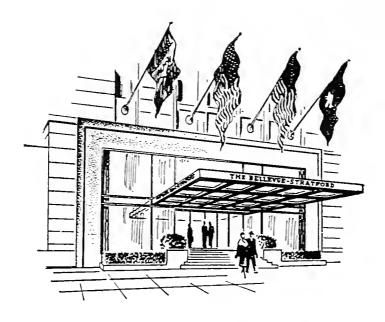
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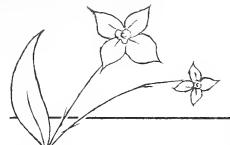
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JUDGING FLOWER ARRANGEMENTS

By Mrs. S. Newbold Van Trump, Jr., Chairman, Judges Council, Philadelphia Area, Garden Club Federation of Pennsylvania

Part of the enjoyment of seeing a flower show is deciding which arrangements you like the best in each class. As you stroll past the exhibits, you will find yourself making mental notes of the colors which please you, the containers you could use, the plant material you find most beautiful. Some will thrill to arrangements with masses of flowers, while others prefer Oriental restraint or the modern use of space with unusual forms. In most cases you pick arrangements which would fit into your own house.

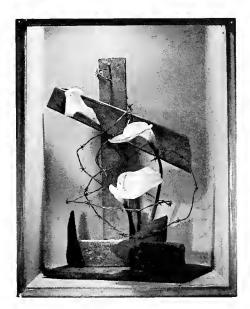
For most of us, the next step is to compare our selections with those chosen by the judges. And this is often a puzzling experience. As we look at the first, second and third awards, we find that the judges have missed some of our favorites. Naturally, we wonder how they could have overlooked such beauty.

Actually judges make every effort to be fair in awarding ribbons. Usually they take the extra trouble to explain their decisions to you and to the exhibitor through written comments. Often the judges spend more time studying the eight arrangements of a single class than the average visitor allows for the entire show. Serving as a judge is an honor, but it is also an exacting task.

For each panel of three judges the first consideration is the printed show schedule. The name of each class and its particular requirements must be read carefully and each arrangement checked to see how faithfully it follows those directions. (Some classes call for arrangements which would not fit any home decorating scheme.) Next, the entries are studied to determine just how well each has been done—whether the arrangement fills the space allotted, how harmoniously the various parts fit together, whether the whole is well balanced, if the eye is led from one part to another, etc. High on the list of considerations is originality, for good judging rewards creativity. To compare the work of many fine arrangers with all these principles in mind, keeping one's personal preferences in the background, is quite a job!

To train more competent judges for our many flower shows, the National Council of State Garden Clubs, Inc., has devised a series of courses pertaining to flower show practice, artistic design and horticulture. These are followed by extensive reading, successful exhibiting and practice with accredited judges—a three year program at the very least. After the candidate has passed the examination and received a certificate, she is expected to take refresher courses every three years to keep abreast of new trends.

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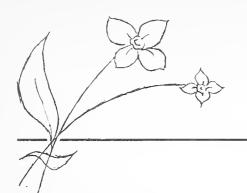


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FLOWER SHOW EXHIBITS

(See Floor Plan on Pages 28-29 for location of exhibits)

NURSERY EXHIBITORS

Star Roses
The Conard-Pyle Company
West Grove, Pa.

County Line Landscape Nursery Herbert Bieberfeld Harleysville, Pa.

Hansen Brothers Nurseries, Inc. Frederick W. Hansen, Vice President King of Prussia, Pa.

Hansen Ground Covers Roland H. Hansen Narberth, Pa.

Judd's Hollylan Nurseries William C. Judd Pitman, N.J.

Pennsylvania Nurserymen's Association

Rose Valley Nurseries L. B. Palmer Media, Pa.

J. Franklin Styer Nurseries, Inc. Concordville, Pa.

Vick's Wildgardens, Inc. Albert F. W. Vick Gladwyne, Pa.

Whitemarsh Nursery Stanley Leighton and Douglass Leighton Plymouth Meeting, Pa.

PLANT SOCIETY EXHIBITS

American Begonia Society Elsa Fort Branch Miss Lola E. Price, Secretary Laurel Springs, N.J.

American Rock Garden Society Delaware Valley Section Paul Buckman and Lee M. Raden, Co-Chairmen

Delaware Valley Bromeliad Group

Delaware Valley Chrysanthemum Society M. M. Brubaker, Chadds Ford, Pa.

Delaware Valley Iris Society Albert Murray, Levittown, Pa. Pennsylvania Bonsai Society

Robert E. Montgomery, Pres., New Hope, Pa.

Philadelphia Cactus and Succulent Society Mrs. Arthur P. Fenton, Jr., Haverford, Pa.

West Jersey Rose Society J. G. Schettler, Pres., Pennsauken, N.J.

FLORAL DISPLAYS

African Violet Display

Allied Florists of Greater Philadelphia, Inc.

Breezy-Knoll Orchids, Norristown, Pa.

Glen Spa Gardens, Glen Mills, Pa.

Middle Atlantic Carnation Growers

Private Growers:

Mr. and Mrs. Lammot du Pont Copeland; Oliver F. Wilson, Gardener

Mrs. Lammot du Pont; Joseph Derrick, Gardener

Mr. and Mrs. Alarik Myrin; Stanley Johnson, Gardener

Mr. and Mrs. George D. Widener; William H. Weber, Gardener

Mr. and Mrs. F. Eugene Dixon, Jr. William H. Weber, Gardener

Lobby Decorations Judges' Council, Garden Club Federation of Pennsylvania

Tulip Garden Designed by Joan Taylor, L.A.

SPECIAL EXHIBITS

The American Society of Landscape Architects

Fairmount Park Commission Harold Schick, Director Charles B. Matthews, Landscape Gardener Mary S. Sims, L.A., Designer

Ikebana International

Mrs. Sydney J. Barnes, Norristown, Pa.

Neighborhood Garden Association of Philadelphia

Mrs. James Bush-Brown, President Mr. John K. Willcox, Chairman

Pennsylvania Roadside Council, Inc.

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Philadelphia Zoological Garden

EDUCATIONAL EXHIBITS

SEED DISPERSAL Academy of Natural Sciences Women's Committee

Mrs. George E. Kearns, Jr.

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Delaware Valley College of Science and Agriculture Doylestown, Pa. Prof. Frederick S. Blau

MECHANICAL TREE CARE International Shade Tree Conference Pennsylvania-Delaware Chapter David Poe, Chapter President

PROPAGATION Roy Kersey, Devon, Pa.

UNDERWATER PLANTS Martins Aquarium, Philadelphia, Pa.

HEATH GARDEN Morris Arboretum Dr. John M. Fogg, Jr., Director INDOOR GARDENING Pennsylvania Horticultural Society

GROWING PLANTS UNDER LIGHT Pennsylvania Horticultural Society

WHAT'S WRONG WITH MY LAWN? Pennsylvania State University Cooperative Extension Service James Rathmell

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Garden Club of Philadelphia Mrs. John Dilks, Pres. Mrs. David Sinkler and Mrs. Francis J. Carey, Co-Chr.

Random Garden Club Mrs. James F. Sutor, Pres. Mrs. John Miller, Chr.

The Society of Little Gardens Miss Martha B. Newkirk, Pres. Mrs. Howard A. Detweiler, Chr.

Twin Valleys Garden Club Mrs. Ralph Vezin, Pres. Mr. Howard L. Gibson, Chr.

CLASS NO. 902—GARDENS

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Huntingdon Valley Garden Club Mrs. Robert J. Harbison, Jr., Pres. Mrs. George R. Haines, Chr. West Chester Garden Club Mrs. H. Cameron Morris, Jr., Pres. Mrs. D. B. Barrows, Chr.

Wissahickon Garden Club Mrs. Edward F. R. Wood, Pres. Mrs. Minturn Wright, Chr.

CLASS NO. 501-ROOMS

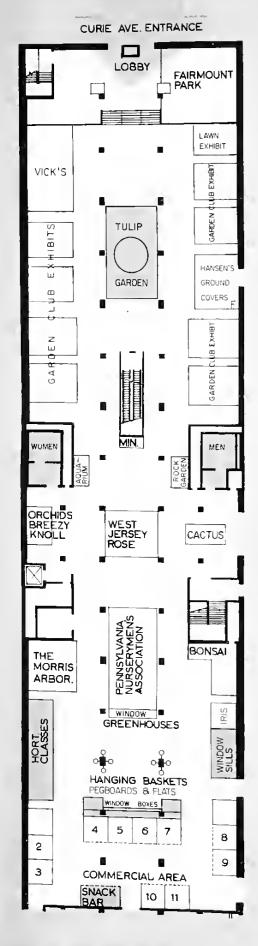
Rosemont Garden Club Mrs. Jack A. Collins, Co-Chr. Mrs. Charles Pinkner, Co-Chr.

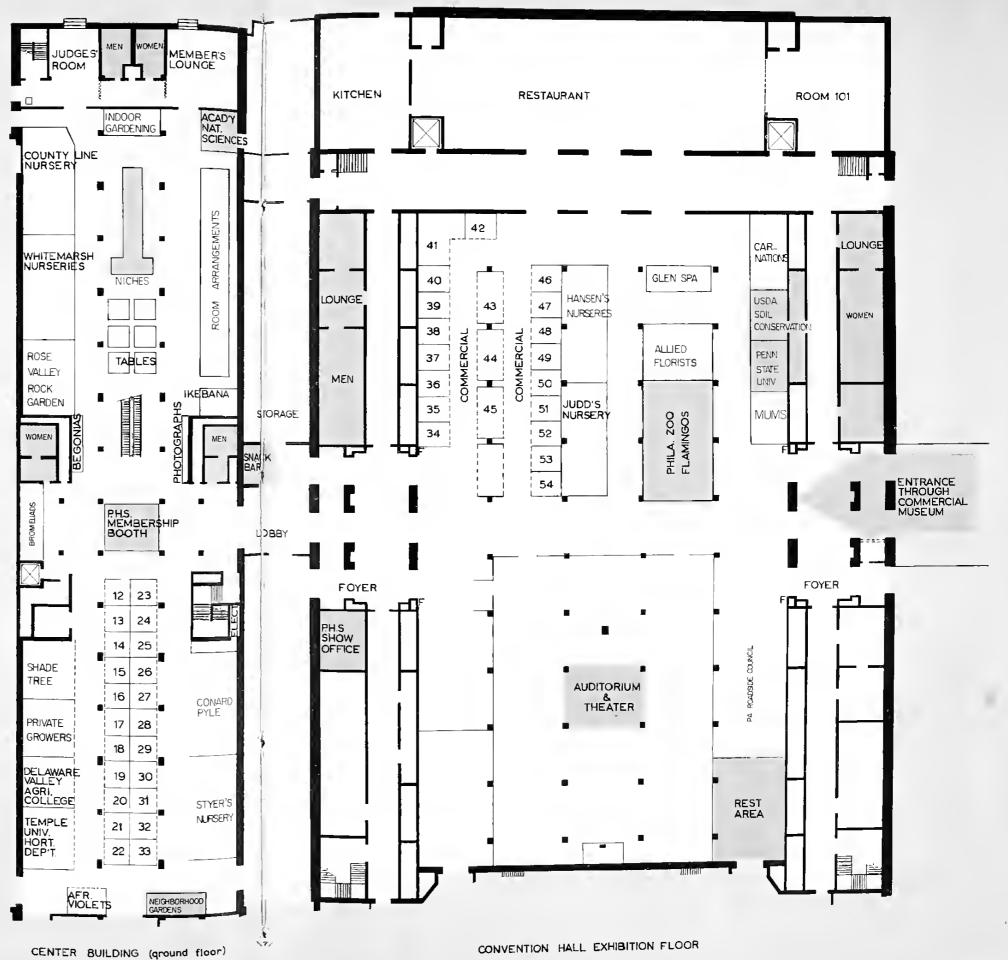
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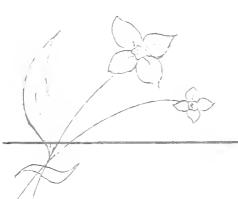
TRADE BOOTH EXHIBITORS

(See Floor Plan on Pages 28-29 for booth locations)

NAME OF COMPANY	PRODUCTS EXHIBITED	BOOTH NUMBER
American Cyanamid Company Wakefield, Mass.	Window Greenhouses	2
The Bombay Shop Box 224 Nutley, New Jersey	Handicrafts from India, Spain and Philippines	22
Bowmaster, Inc. 18 North 4th Street Minneapolis, Minn.	Bowmakers and supplies	5-6
W. Atlee Burpee Co. Fordhook Farms Doylestown, Penna.	Fresh flowers and seed packets	26-27
Star Roses The Conard-Pyle Company West Grove, Penna.	Roses and Miniature Roses	23-24-25
Edelweiss Gardens Box 66 Robbinsville, New Jersey	Rare, exotic house plants	14
Fischer Greenhouses Linwood, New Jersey	African Violets, Azaleas and Gesneriads	45
Floral Art Highland Station, P.O. Box 394 Springfield, Mass.	Flower Arranging Supplies	21
Floral Centerpiece Company 44-11 30 Avenue Long Island City, N.Y.	Flower Arranging Supplies	4
Sheldon S. Gross 1608 Willow Grove Avenue Philadelphia, Penna.	English lavender and bowmakers	10-11
Haarlem Bulb Company 458 Hunter Avenue West Islip Long Island, New York	Bulbs, vases and planters	28-29-46
Hawaiian Nurseries Box 51 Brooklyn, New York	Ti-Logs, plant cuttings and bulbs	32-33
M. J. Hoffman Company 904 Walnut Street Philadelphia, Penna.	Novelties and Flower Containers	16
The Horse Centerville, Delaware	Wire Topiary Frames	7
International Growers Exchange, Inc. P.O. Box 397 Farmington, Michigan	Bulbs	17-18

3U :

NAME OF COMPANY	PRODUCTS EXHIBITED	BOOTH NUMBER
Jones Mower and Equipment Co. 2418 Graslyn Avenue Havertown, Penna.	Power Mowers and Garden Tractors	48-49
S. Klein Department Stores Roosevelt at Cottman Philadelphia, Penna.	Garden Plants and Supplies	53
Lord and Burnham Irvington-on-Hudson New York	Greenhouses	8-9
Maryland Peat and Humus Co. Box 68 Betterton, Maryland	Horticultural Peat	47
McFarland Water Boy, Inc. 6027 Bridget Street Philadelphia, Penna.	Irrigation Systems	38
National Council Books, Inc. 6753 Germantown Avenue Philadelphia, Penna.	Books	43
J. A. Nearing Co., Inc. 4233 Bladensburg Road Brentwood, Maryland	Greenhouses and Accessories	34-35
Neimeyer Service Center 19. S Newtown Street Road Newtown Square, Penna.	Farm and Garden Equipment and Supplies	41-42
The Oriental House 240 W. 98th Street New York, N.Y.	Oriental Gifts, Planters, Garden Lanterns, Vases	54
Ott's Greenhouses Box 22, Gravel Pike Schwenksville, Pa.	Plants and Hanging Baskets	19-20
The Philadelphia Electric Co. 211 South Broad Street Philadelphia, Penna.	Lighting for Indoor Gardening	50-51-52
The Philadelphia Inquirer 400 North Broad Street Philadelphia, Penna.	Gardening Information	36
Snyder Brother Orchids 120 Parkside Road Plainfield, New Jersey	Orchids	30-31
Tinari's Greenhouses 2325 Valley Road Bethayes, Penna.	African Violets and Accessories	12-13
The Wright Company 1603 - 19th Street, N.W. Washington, D.C.	Flower Arranging Supplies and Driftwood	44



HOW TO UPGRADE YOUR LAWN

by William H. White, Philadelphia County Agent

How bad is it?

The answer to this question determines whether you start over again or try to improve what you already have. The old rule of thumb is still a good one, "If your lawn consists of 50% or more good grass it is usually cheaper to improve than to start over again."

Where do the weeds come from?

Your neighbor's lawn, your lawn mower or your landscape contractor's! Some come in cheap lawn seed, but many are already present in your soil just waiting for a bare spot and suitable germinating conditions. In "Lawn Making" Leonard Barron says, "As sure as the desirable lawn grasses are allowed to die out, undesirable, rank growing weeds will immediately occupy the ground—nature abhors a blank spot."

Remember, a weed is any plant out of place. If your goal is a Kentucky Bluegrass lawn (and Bluegrass is our best cool-season grass in the Philadelphia area.

bent grass, K-31 fescue or ryegrass can be called a weed. However, K-31 is an excellent grass on an athletic field, and bent grass is still used on golf course greens.

What caused the dead spots?

It could be anything from rabbit urine to spilled gasoline from your power mower. Other causes include insects and diseases, improper application of fertilizer or herbicides, dry weather, poor drainage, compaction and high acidity.

In nine out of ten cases in the summer of 1965 dead areas could be attributed to the chinch bug, a dry weather sucking insect that loves bent grass (and some bent grass is to be found in most home lawns) and zoysia.

When is the best time to renovate?

There is no question that the best time to renovate your existing lawn is the fall. September and October. There are several reasons why: the soil is still warm,

Photo by Hertha Benjamin



but air temperatures are conducive to grass growth; we can normally expect rain; many of our problem weeds are annuals that germinate in the spring, which means that the grass will have a chance to get established in the fall before it has to meet competition from this source.

Soil testing—a good place to start

Successful farmers don't apply fertilizer by guess they test, and you should, too. All that it takes is a call or card to your County Agent. The cost is \$1.50 per test. Stop by the Penn State Agricultural Extension Service Booth for more information on soil testing.

Lime is cheap

Soil testing will tell you exactly how much lime you need, but if you haven't limed in four to five years you could safely apply 50-75 pounds of ground agricultural limestone to each 1,000 square feet. If you don't know how big your lawn is, step it off. The average male stride is 3 feet, and multiplying length times width (in feet) will give you square feet. Write the result down some place so you won't forget it because everything you apply to your lawn is measured in ounces, pounds or gallons per 1,000 square feet.

Lime is important

Ten or twelve reasons for liming could be enumerated. Suffice it to say that lime gives you more for your fertilizer dollar and improves root growth, and soil structure. Beneficial soil microorganisms like a neutral soil, but soils in and around Philadelphia are naturally acid. In some cases soil tests have shown a need for quantities as large as 250-300 pounds per 1,000 square feet of limestone to correct soil acidity.

Steps in renovating

- 1. Plan to kill the weeds 3-4 weeks before you seed. For crabgrass use DSMA or AMA (three to five applications); for plantain and dandelions use 2, 4-D; for clover use MCPP, Dicamba or Silvex, and for chickweed use MCPP or Dicamba. If in doubt as to what your weed problem is, contact your County Agent.
- 2. Apply limestone and superphosphate (0-20-0) as indicated by the soil test or apply 50-75 pounds of limestone and 25-40 pounds of 0-20-0 per 1,000 square feet.
- 3. Rake the lawn vigorously or cultivate it in such a way that the surface of the soil is loosened. This forms a seed bed for planting.
- 4. Apply a relatively high nitrogen fertilizer at the rate of 20 pounds per 1,000 square feet. Use a product with an analysis in the range of 10-6-4 having at least 50% of the nitrogen from an organic source.
- 5. Seed the lawn with a good bluegrass seed mixture. For sunny areas a mixture of one half Merion Kentucky Bluegrass and one half Kentucky Bluegrass is good. For shady areas use a mixture high in Pennlawn fescue



Photo by Hertha Benjamin

with some Kentucky Bluegrass and some Poa trivialis. For new lawns, seed at the rate recommended on the label. For overseeding a thin existing lawn 1-2 pound of seed per 1,000 square feet is ample.

- 6. If you have or can borrow a water ballast roller, fill it half full and roll to press seed in contact with soil.
- 7. Water lightly but frequently (2-3 times a day) until seed germinates.
- 8. As soon as there is something to mow, cut the grass with a mower set $1\frac{1}{2}$ to 2^n above the ground.

What can be done this spring?

- —If you haven't grub-proofed your lawn for 3 or 4 years, March or April is a good time to apply Chlordane or Dieldrin to prevent beetle grubs from devouring grass roots.
- —There are several theories on fertilizing, but don't expect one application in the fall to carry you through a whole year. Here again a soil test is helpful. In the absence of a soil test, if you fertilized in the fall, apply a 10-6-4 part organic fertilizer of the kind mentioned previously in this article at the rate of 20 pounds per 1,000 square feet around May 1. In applying fertilizer always be sure the grass is dry, and just to play safe, water it in.
- —If you want to head off crabgrass before it germinates, apply Azak, Betasan, Dacthal, Tupersan or Zytron by the 15th of April. Be sure to read the label, because several of these compositions can be injurious to bent grass and fine fescues, and there are seeding limitations on all but one.
- —Spring is a good time to control chickweed, clover, dandelion, ground ivy, hawkweed, heal-all, henbit, and plantain. Here again there is a waiting period of 3-6 weeks before seeding.
- -Don't Forget-"If the grass is cut short it will need mowing less often" is a fallacy. Unless you have a zoysia or bent grass lawn, set your mower at 112" or higher and leave it there.

It doesn't take a lot of time and money to improve your lawn if you know what to do, when to do it, and do it. 33



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by Theodore Foulk

Many people shudder at the thought of having to plant a tree or shrub, usually because they are afraid of doing something wrong and killing the plant. Planting is actually very simple. More complicated by far are the problems of getting the right plant in the right place, and then maintaining it properly.

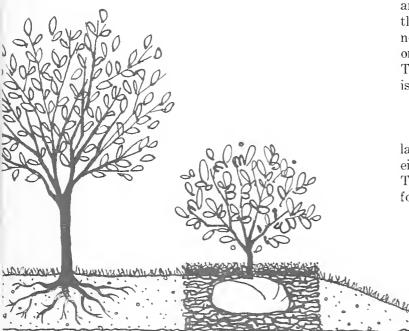
There are five things to consider when you plant. Let's discuss them briefly.

Select the plant that is right for the proposed location. If a plant goes into a wrong place, the result may be disastrous. For example, a native rhododendron planted in full sun on the south side of a house or a yew placed in deep shade will both fail no matter what care is

First, examine your soil. If it is heavy clay, or very sandy, the chances are that it is low in organic content (decayed vegetable matter). In such cases, an equal volume of coarse peat should be added to the planting soil. Use only baled peat. Finer grade peats, Michigan peat, for example, are too fine to be effective. Of course, if you have well decayed compost on hand, you may use this instead. Never use raw compost or fresh debris, as these will cause root damage.

It is also a good idea to add a pound or two (depending on the size of the plant) of bone meal or superphosphate (0-20-0). These elements stimulate root growth and help to balance our ordinarily phosphorus-poor soils. Do not use any fertilizer compound containing nitrogen or potash. They are "hot" materials and can cause fatal burn to the delicate fiber roots of the plant. A cardinal rule among nurserymen is to use no fertilizer except phosphorus in the planting pocket or as a top dressing for the first six months after planting. Then, only liquid food with a high phosphorus content is used for the rest of the first year.

Once you have prepared the soil, the actual installation of the plant is easy. Dig a planting hole at least eight inches wider than the plant ball or root spread. The top six or eight inches of soil should be put aside for mixing with the prepared peat-soil mixture. The



taken in planting and maintenance, because native rhododendrons need some shade and yews must have sun.

Also, careful account must be taken of growth rate, habit, and eventual size of the variety selected so that the plant will have adequate room to develop and mature without crowding or unbalancing other plantings. Decide what you wish to accomplish, take note of the exposure and soil conditions, and then consult either a professional horticulturist or the Pennsylvania Horticultural Society for advice on the variety of plant to use. Remember, the right plant in the right place is half the battle.

hole should be slightly deeper than the ball depth, and some of the prepared soil should be mixed into the bottom. It is important, especially with broad leaved evergreens and azaleas, not to have the plant too deep in the planting pocket. The whole top of the plant ball should show when the planting is completed.

Place the plant in the hole, tamp the planting mixture firmly around the root ball to within two or three inches of the top, and flood the hole with water to settle the soil. After several hours, fill the hole with planting mixture. Finish by making a water-retaining ring or dam at the outer edge of the planting pocket. Fill the

interior area with two inches of mulch—peat moss, cocoa hulls, pine bark or such—to retain moisture and keep the roots cool.

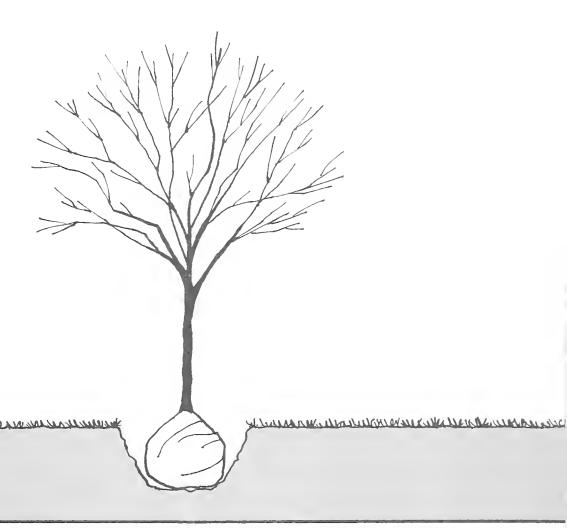
If you are planting a bare rooted plant, follow the same procedure, but be careful not to break the roots when packing in the soil. If the bare rooted plant is a tree, it should be staked or guyed for two years.

Post Planting Care

The care given transplants during the first year is critical. More plants are lost through improper treat-

capacity to absorb water and, finally, loss of the plant.

The best rule to follow in watering newly planted trees and shrubs is to keep the soil moist but not wet. Usually a thorough watering (five or ten minutes of slow irrigation from a hose) every ten days is sufficient, but requirements vary widely with different soils. I suggest periodic inspection by digging with a trowel to a depth of five inches at the edge of the planting pocket as a way of determining the amount of moisture present. If a handful of soil taken five inches below the surface will readily ball up and not crumble, you have too much

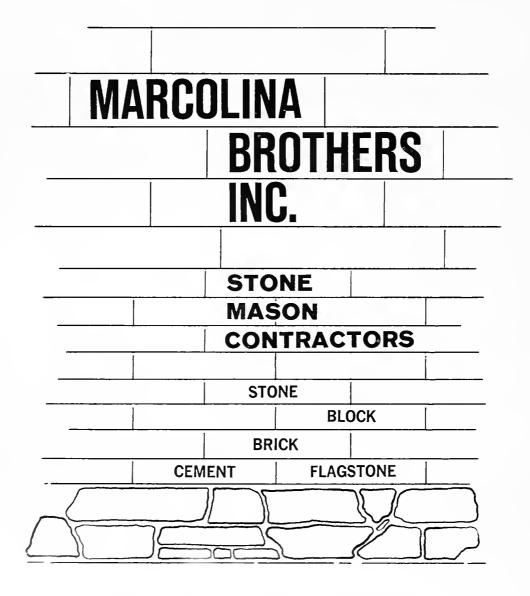


ment than for any other reason, and, strangely enough the fault is usually too much care rather than too little. This excessive care almost always falls in two categories —over-watering and over-feeding.

Too many people have the idea that transplants need large amounts of water. This is simply not true. In fact, a newly transplanted tree or shrub has a lower requirement for water than an established plant because its roots have been heavily pruned, reducing its capacity to the water into its circulatory system. Too much water causes puddling of the plant pocket, particularly in heavy soils. This in turn causes deterioration of the soil structure, loss of free oxygen, and rotting of the fibrous root system. The result is a progressive loss of

water and you should water less frequently.

Feeding of transplants should also be approached with caution. The use of any fertilizer, other than well rotted manures, in the planting pocket is taboo. There is a strong possibility of root burn where a chemical fertilizer is used, and even the organic materials can be too strong. It is a good idea, however, to use a water soluble fertilizer of high phosphorus content every four weeks for the first six months. Thereafter a regular feeding in early spring and early fall can be given. Place the fertilizer on the ground at the extremities of the branches, never against the main stem. Use no fertilizer of any kind on newly planted trees or shrubs from October 15 to March 15.



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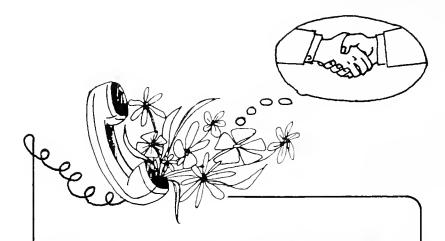


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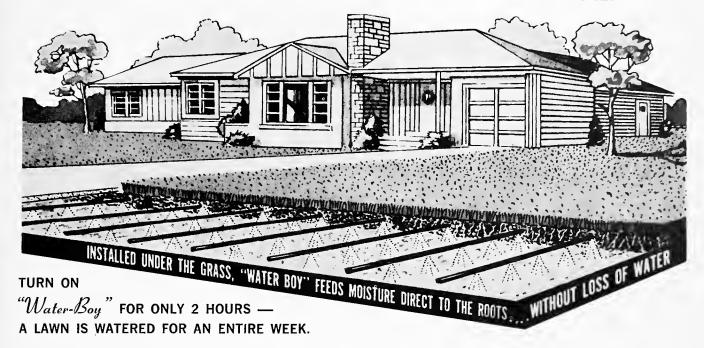


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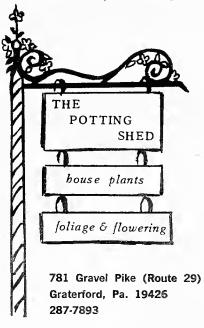
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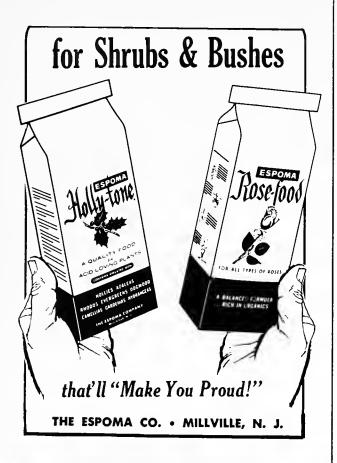
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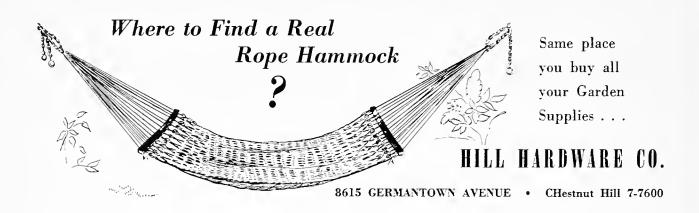
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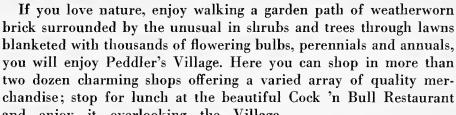
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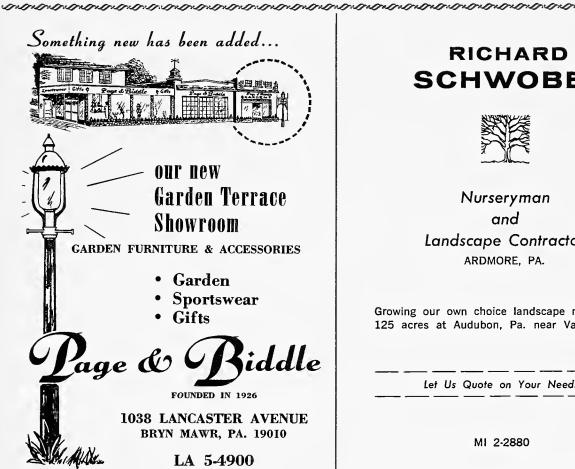
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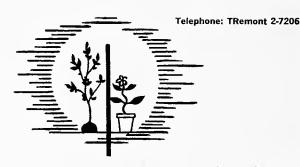
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Double Ruffled Begonias

(New Improved Camellia type)

solid beds—or as specimen pot plants for patia decoration. Fine for window boxes too! Moke excellent cut flowers. Available in This is the most popular type of all due to the exquisite formation of the flowers. They are excellent for planting in the barder—in the following colors:

Mixed Colors 퍍 Apricot

Multiflora Gigantea Begonias

(Many Flawers)

summer—flowers are not as large as the other types—but the compact plants make them ideal for edgings for the flower border or in pots. Available in mixture of pastel shades-all colors, Short sturdy growing plants that are covered with blooms all

Hanging Basket Begonias

each bulb. Available in the following colors—all double flowers: Delightful for piazza and summer house decorations as well as the rockery and window boxes. Often hundreds of blossoms from Dark Red

Golden Yellow Rose Pink Apricot

Finest Mixture

Picotee Begonias

pencil thin stripe around each petal of the bloom. Very beautiful Blooms are like Double Ruffled type except that they have and attractive, Available in the following combinations:

Apricot with scarlet edge White with red edge

White pink edge

(Wire Basket with hanger and moss liner available at \$2.25 each) \$4.25 for 5; \$7.50 for 10; \$17.50 far 25, \$65.00 for 100. Any of the abave Beganias are priced of:



1967 INTRODUCTIONS

Rose-red, heavily sploshed with white dots and marks. Very (Double Ruffled Camellia) POLKA DOT.

ROSE BEAUTY. (Hallyhack flowered Begania)

It grows about 24 inches tall and is very unusual. The single Rowers are a beautiful rose and are produced in profusion.

\$7.00 for 5; \$13.50 for 10; \$30.00 far 25 Any of abave priced at:

tubers indoars to have the grawing plants ready for planting in your garden when danger of frost is past; or, we will ship for out-Full cultural instructions with each order. Begonias are also ideal Place your order now. We will ship early so that you may start the doar planting in yaur garden at regulor planting time in Spring. far windaw boxes—ar os pot plant specimens for the Potio. Send far your copy of Scheeper's Spring 1967 Catalog: "Beauty from Bulbs," in color showing—Gladioli, Dahlias, Lilies, Begonias, Montbretias, Lycaris, Tuberoses, Delphiniums, Hemeracalis, Iris, Ferns, Vines, Wild Flawers and miscellaneous bulbs.

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Flower Bulb Specialists

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A CARNIVAL OF FLOWERS



Photo by Roche

The Philadelphia Spring Flower Show, held each year at the end of winter before the beginning of spring, a full month in advance of the average date of the last killing frost, is a work of the imagination constructed by the labor of many hands. Here the inspirations of winter catalogs and the promise of fall plantings take substance, shape and color. All seeds germinate, every flower grows strong and true. No crabgrass mars the lawn.

The show is truly the work of many hands—nurseries, plant societies, garden clubs, civic organizations,

educational institutions, business concerns, professionals and amateurs. Together they have created the imagery of spring, anticipating and refining the season.

The show holds something for every specialist, but to divert and enliven those who have grown weary of winter and are impatient for the spring, the Philadelphia Spring Flower Show is above all a gala invitation, a festive introduction, to a Carnival of Flowers.

> John G. Williams, President The Pennsylvania Horticultural Society



Southeast Pennsylvania isn't just the Liberty Bell, the Philadelphia Orchestra, the Museum of Art, the Bucks County Playhouse, the Main Line, the Army-Navy Game and the hub of the great Eastern research, talent and industrial belt.

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SPRING RAINBOW Helen S. Hull

A walk in the oak woods of eastern Pennsylvania in spring is bound to bring joy and surprise with the discovery of wildflowers in bloom. By observing these beauties in their native habitat much can be learned about growing them. They push through the frosty soil to begin blooming in the cold winds of March: and this provides the key.

Above these early flowers are the tall, bare-limbed oaks and hickories, and the stately tulip-tree just showing color in budding leaves. By early May these trees will be in full leaf. What in March was a canopy of blue sky, in May becomes an umbrella of green, shutting out the sun. The closing of the window above is the time clock for the wildflowers on the floor of the woodlands. These fragile and delicate plants must rush into growth, bloom and set seed before light fades. Their work done, some wither above ground and disappear until the following spring.

These fundamentals furnish guidance for adapting

such plants to home grounds. If the trees above are native to the area, and the soil beneath the trees has received the yearly fall of leaves, there may be sufficient woods soil to support wildflowers, and little need be done beyond clearing the place of unwanted growth. If summer shade is lacking, this must be devised. A further look at the woods suggests possibilities.

The deciduous woods have a layered formation. Highest are the dominant oaks. Underneath these grow the flowering dogwood, shadbush and redbud. Next are the tall shrubs, such as pink azalea and mountain laurel. Below these are the larger herbaceous plants: ferns, baneberries, Solomon's seals. Lower than all of these, and just above the forest floor, are the wild-flowers that we wish to grow.

First select a favorable spot, preferably an east slope, where plants greet the early rays of the morning sun and where spring showers soak but do not stand on roots. In the woods, from generations of falling leaves,



Photo by Roche

Christmas fern sends up new fronds as trillium, foam flower, columbine and yellow, purple and white violets bloom in a wildflower garden made on an outcropping of rock.



Photo by Roche

A few rootstocks of the great white trillium (T. grandiflorum) multiply into clumps which can be divided.

the soil is rich in humus. Loosen the earth and incorporate woods soil, leaf mold, "stump dirt" or peat moss—with sand if needed to make the whole light and crumbly but firm enough to support the plants. Twigs and a few small stones make cool anchorage for fine roots. Moisture must be made available if nature does not provide it.

The wildflower area should be laid out as carefully as any other part of the garden. If it is necessary to start with small specimens of the trees and shrubs which at maturity will provide the shade, these should be set first in the design. The larger native ferns, still coiled in early March, will spread their tall fronds to provide a tolerable shade until the trees and shrubs are large enough to take over. The ferns, too, must have some protection from midsummer sun. Next, those wildflowers easiest to grow, known to be most adaptable, and obtainable from propagating nurseries, will give the greatest return in satisfaction. The most pleasing

effect will be obtained from more plants of fewer kinds.

Here are some flowers to try. The fern-like mounds of waxy-white Dutchman's-breeches may be the first to bloom in March; then follow closely the fragile blossoms of bloodroot, whose tulip-like bud, wrapped snugly in the palmate leaf, springs into flower on the first bright day.

Hepaticas send furry buds of blue, pink or white above last year's leaves. Not far behind come the red, and then the majestic great white, trillium. The red American columbine shimmers in a rock crevice nearby, and in a hollow, the sky-blue of mertensia. Foamflower or bishop's-cap will supply contrast. All may be interlaced with violets, early yellow, purple and sweet white.

With reasonable care, and protection against those small mammals who may also call your garden home, your rainbow of wildflowers will grow and increase in natural beauty from year to year.



Photo by Roche

Dutchman's-breeches sway in March breezes above mounds of fern-like foliage. The golden kernels which are the tubers account for the common name of an allied species "squirrel corn," and gives a hint that these may be choice morsels for underground predators.



Photo by Roche

Bloodroot, which takes its name from the red rootstock, flings open its petals to the March sun but closes at night looking like a miniature tulip, until pollination takes place. Then the petals fall, and a green pea-like pod forms as the leaves expand.

'REDECORATING' THE FLOWER SHOW

A new dimension has been added to the exhibits of the Philadelphia Flower Show this year. To make a true "Carnival of Flowers," new and dramatic lighting and color background effects have been added.

The two acres of the new Center Building of the Philadelphia Civic Center and the Old Exhibition Hall have been "redecorated" with lights, draperies and carpeting. Coordinating the exhibits with effective lighting and decorating effects has produced an enchantment in which Scheherazade would have been happy to tell her tales of 1001 Arabian Nights.



Responsible for the way the color, flowers and lighting react to each other is the architectural firm of Vincent G. Kling and Associates. Their treatment of this exhibit has revitalized the interior of the exhibition buildings for the Flower Show.

Although they had a very limited budget to work with, the architects made plans which they hoped would camouflage the sins of this great space and enhance the natural beauty of the flowers. The existing lighting—different kinds of incandescent and fluorescent lights—not only destroyed the unity in the areas but dulled the beauty of the flora.

The architects erected a full-scale mock-up in a fivebay area of Exhibition Hall to test their proposals dealing with color and light. They used special filters for all lights; canopies and red carpeting which provide an Arabian Nights setting and free-standing exhibits. Exhibitors were invited to see the effects of a variety of fabrics, carpeting and lighting. A main lengthwise aisle and a cross aisle are laid out for each of the three exhibition halls providing natural orientation for visitors. These aisles are paved with geranium-red twist carpeting under canopies of soft beige and gold satin supported on cables. Since red is the complementary color to green, it reinforces the green of the plants. (The green, in turn, strengthens the red.)

Pink and amber filters are placed on the existing lights and shine down through the canopies. The canopies, which have an 18-inch overhang, resemble Oriental tents and with the lights and carpeting are designed to provide an exciting environment in which to enjoy the exhibit undistracted by the high ceilings.

Blue tinted filters are used on lights over exhibition areas to flatter and subtly complement the natural colors of the flowers and foliage. Without this special lighting, the greens become gray and flat, while flowers assume an artificial appearance. The blue filters also benefit the flowers by reducing the heating effect of strong lights. Exhibitors' floodlights and spotlights are coordinated with the overall plan.

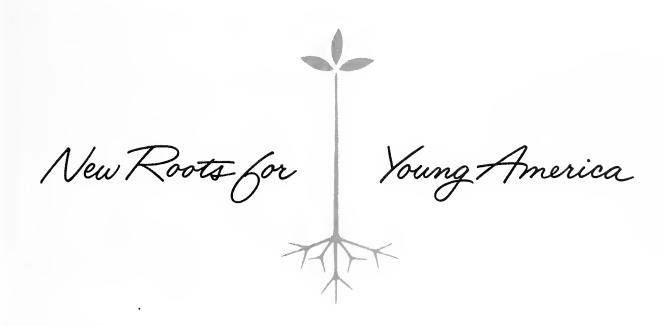
(You can try lighting floral arrangements in your own home by attaching various colored filters to a flashlight, or by using several flashlights to combine the three primary colors. Colored cellophane may be employed. You can also highlight a small area by fastening a long, cardboard tube to a flashlight).

Some of the nurserymen's exhibits are free-standing, giving them an omnidirectional dimension for the first time. Previously one looked into a three-sided box; now one may walk all around the exhibit. Tall compositions are strategically placed so that spectators can see between and beyond them, resulting in longer vistas which lend a more spacious look to the entire show.

Two illuminated fountains are featured, one at the Exhibition Hall crossway and one on the first floor crossway of Center Building. Islands of flowers are placed at strategic spots along the circulation areas and at all crossways. Columns near the circulation areas are enwrapped with gold and beige satin.

Approximately 2,500 yards of nylon twist carpeting and nearly 6,000 yards of fireproof satin canopy are used in the Flower Show. Filtered lighting is provided for 244 existing fixtures and 200 floodlights.

Thus the Exhibition halls have been transformed into a delightful garden where colors do not fade, where "strong silent greens" remain "serenely lingering." (e.e. cummings)



We congratulate the Pennsylvania Horticultural Society on the occasion of its 1967 Spring Flower Show, and commend its year-round interest in growing things of beauty.

This nation's most precious heritage is the land itself. As our population grows, as industry expands, and the need for housing and highways becomes increasingly urgent, the natural beauty of our land must be protected.

Reliance Insurance Companies, on the occasion of our 150th anniversary, has

launched a program of tree-planting on the school grounds of 150 leading cities. This coast-to-coast program, called "New Roots for Young America," is being carried out with the cooperation of local

civic officials.
The New Roots program has been designed to complement Mrs. Lyndon B. Johnson's drive to keep America beautiful. Reliance hopes that New Roots will help inspire individuals and organizations everywhere to do their part to protect and enhance our nation's beauty.

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COMPETITIVE CLASSES

See Floor Plan on Pages 28-29 for location of classes

SUNDAY, MARCH 12

Gardens and Rooms

Class 901—Section of a garden characteristic of a particular region or country

Class 902—Section of a garden including a lath house

Class 903—Section of formal, informal or naturalistic garden

Class 501—Room section suggesting a country or region using plants and flowers

Flower Arrangements

Class 502—A table setting

Class 503—Abstract suggesting growth

Class 504—"The World to Explore"

Class 505—"The Tropics"

Class 506—"The World's Natural Treasures"

Horticulture

Classes 601 through 618

Daffodils, hyacinths, tulips, hanging baskets, foliage plants, orchids, bonsai, espaliers, bromeliads, ferns, terrariums, begonias, perennials, herbs, pansies

Classes 651 through 653

Window boxes, lilies, trained ivy

Class 1001—Cut Roses (Commercial)

Classes 1003 through 1017

Carnations (Commercial)

MONDAY, MARCH 13

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Classes 502, 503 (See Sunday Classes)

Class 507—"A La Carte"

Class 508-"Some Like it Hot; Some Like it Cold"

Class 509—"Emphatically Three"

Horticulture

Classes 651 through 653 (See Sunday Classes)

Classes 601 through 618; Class 1001;

Classes 1003 through 1017 (See

Sunday Classes)

TUESDAY, MARCH 14

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Class 502—A Table Setting

Class 510—Abstract depicting an element

Class 511—"Fan Fair"

Class 512—"Holidays of the World" (Novices only)

Class 513—"Design Within an Oval"

Horticulture

Classes 701 through 718

Daffodils, hyacinths, crocus, hanging baskets, succulents, windowsill collections, miniature geraniums, bonsai, alpines, gesneriads, miniature landscapes, indoor plants, primulas

Classes 651 through 653 (See Sunday Classes)

WEDNESDAY, MARCH 15

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Class 510—Abstract depicting an element

Class 515—A buffet table

Class 516—"Forms and Flowers"

Class 517—"Abundance of Roses"

Class 518—"Music Hath Charms"

Horticulture

Classes 701 through 718 (See Tuesday Classes)

Classes 561 through 653 (See Sunday Classes)

Class 1002—Cut Roses (Commercial)

Classes 1018 through 1032—Carnations (Commercial)

THURSDAY, MARCH 16

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Classes 510, 515 (See Tuesday and Wednesday Classes)

Class 519—"Design for Today"

Class 520—"Timeless Treasures"

Class 521—"Design of Yesterday"

Horticulture

Classes 701 through 718 (See Tuesday Classes)

Classes 651 through 653 (See Sunday Classes)

Class 1002—Cut Roses (Commercial)

Classes 1018 through 1032—Carnations

(Commercial)

FRIDAY, MARCH 17

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Class 515—A buffet table

Class 522—Abstract suggesting Flight of a Bird

Class 523—"Emotion"

Class 524—Challenge Class (material supplied to

exhibitor at 9 a.m., judging at 11)

Class 525—"Bess, Bugs and Butterflies"

Horticulture

Classes 651 through 653 (See Sunday Classes)

Classes 801 through 818

Daffodils, hyacinths, tulips, hanging baskets, ferns, horticulturists' collections, bonsai, standards,

begonias, succulents, indoor plants, terrace plants,

azaleas, begonias, English daisies Classes 1018 through 1032—Carnations (Commercial)

SATURDAY, MARCH 18 and SUNDAY, MARCH 19

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Classes 515 and 522 (See Friday Classes)

Class 526—"Time Off"

Class 527—"The Velvet Touch"

Class 528—"A Child's World"

Horticulture

Classes 651 through 653 (See Sunday Classes)

Classes 801 through 818 (See Friday Classes)

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BONSAI FOR GARDENERS

By Dorothy S. Young, Editor, Bonsai Quarterly, Pennsylvania Bonsai Society

Bonsai is one of the many forms of gardening which has developed into an art. The word "bonsai" is a Japanese term meaning "tree" and "tray" and refers to a tree or plant in a small container that is dwarfed through the use of horticultural techniques. Two of the techniques used to dwarf a tree, for example, are confinement to a container and repeated pruning of new top growth each year.

At the same time the dwarfed tree is conventionalized into a simplified abstract form that is intrinsically pleasing and suggestive of a tree in nature. To stylize the natural beauty of a tree in miniature requires a certain amount of skill which comes with practice and experience. This is the challenge of bonsai.

Using the right kind of plant material is as important as skillful handling. The expert can evaluate the bonsai potential of a plant and does not waste his time on the unpromising ones. Many beginners, on the other hand, have poor results because they use plants that cannot be transformed into presentable bonsai.

Suitable material is readily available and all growers can get a head start by learning to recognize it. First, pass up cuttings and one year old seedlings unless you want to grow them on for later use. Well developed trees and plants are needed to produce mature looking bonsai. Select a plant with compact growth having branches distributed on all sides and a trunk that is thickened at the base and tapered toward the top. If possible, find a plant in which you can see an imaginary bonsai in the conformation of the trunk and major branches. Then you will start with a tree or plant that already has a bonsai in it.

One of the best for bonsai is Chamaecyparis obtusa, called False Cypress in this country and Hinoki Cypress in Japan. It is a slow growing evergreen, free of major disease and insect trouble, tolerant of pruning and growing and grows well in a container. It has many varieties, some of which are especially slow growing and dwarf such as C.o. nana and C.o. gracilis nana. Differences also occur in the foliage. Nomenclature, however, is not standard in the nursery trade and it is advisable to choose a plant that meets your requirements rather than to purchase it by varietal name.

Remember to start with a plant that is as large or larger than the size of your proposed bonsai. After a bonsai is established in a small container it does not increase in height to any extent. As the top growth is trimmed the branches acquire a smooth sculptured appearance. The bonsai becomes fuller and more compact but not appreciably bigger.

After a plant is selected, study it carefully. Plan your bonsai along the existing lines of the tree. The Hinoki Cypress is usually an upright grower with a slightly curved trunk. In bonsai this is called the informal style and is easy to use because of its flexibility. First, determine the front. Turn the tree around and examine the trunk from all directions. Remove the lower branches for a distance one-fourth or one-third the height of the trunk to a point where a number of substantial branches extend in different directions around the tree. These will be the lower branches of the bonsai. Also remove an inch or less of soil at the base of the tree to expose any surface roots which can be used to give an air of stability to the tree. Using the factors previously mentioned such as the outward spread of the trunk at its base and gradual taper toward the top, decide which



Hinoki cypress, a variety of Chamaecyparis obtusa, two feet tall.

view of the trunk is most attractive and mark that as the front. The front is a permanent designation and is used as a point of reference for all further shaping and pruning.

As you look at the front of the tree, picture it in the shape of a triangle with unequal sides. The apex will be at the top of the trunk with one side extending down to the lowest branch on the right and the other side to the lowest branch on the left. Try to have the three points of the triangle at different heights from the base of the tree. To fit the tree into the design of the triangle the trunk and branches can be cut back or bent by wiring. In altering the position of a branch be careful to keep the tree natural looking.

Now that the shape of the bonsai is determined, make the finishing touches by thinning out some of the



Sargent's juniper, a mature specimen at least 100 years old

branches to expose the trunk to view. Plan the pruning so the branches will alternate from either side of the trunk. Instead of spacing them evenly from top to bottom, form clusters of branches at intervals along the trunk. This will give a pleasing layered or "cloud" effect to the bonsai. Finally, the parts of the tree extending beyond the imaginary triangle will be cut back.

During this imaginary pruning and shaping some growers find it helpful to make a rough sketch. Others wrap tissue paper over the branches to be removed. This makes it easier to visualize the final result. The point is to plan each step to the finished bonsai and then go to work. Generally, up to a third of the top growth can be removed in the initial pruning. Plan to cut back the root growth in approximately the same proportions that the top is pruned.

Keep the tree in its nursery container while you are working on it. After the top growth has been shaped, remove the tree and cut back the root ball to fit it into the bonsai pot. Traditionally the pot is one-fourth or one-fifth the volume of the tree but if the roots need more room, use a larger pot at first and later, when the roots are more compact, move the tree to a smaller container. Use a potting mix that drains well. Equal parts of soil, coarse sand and peat moss is satisfactory and easy to make.

In an oblong or rectangular container place the tree with the front facing the long side of the container and the trunk slightly to the right or left of center. Plant the tree a little above the rim of the pot and let the soil slope from the base of the tree to the edge of the container. The soil can be covered with a layer of moss to improve the appearance and prevent erosion. Do all potting and repotting under shelter away from wind and sun. Keep a newly potted bonsai in a protected place for two weeks and then gradually expose it to normal growing conditions. The bonsai is watered thoroughly when potted and, as Hinoki Cypress likes moisture, it is watered again whenever the soil begins to dry.

For a permanent location, place your bonsai on a shelf or table outdoors where you can see and enjoy it. It will need partial shade but also some sun during the summer days.

In November move your bonsai to a cool sheltered place for the winter. This can be in an unheated part of the house, a cool sunporch or basement, wherever the temperature remains under 45°. The bonsai can also be outdoors under shelter such as a cold frame. Freezing is not harmful. From time to time during the winter check the soil and water when necessary. Otherwise, no special care is needed during the winter months.

In spring the bonsai is returned to its place in the garden and is welcomed back like a friend who has been away.

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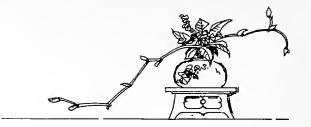


Unusual Gifts and Novelties

Flower Arrangements of Distinction

FLOWER SHOW FLOWER ARRANGEMENTS

by Joan Havens



In a place of prominence on the ground floor of this show, the visitor will find twenty-one niches and four specially designed spaces for the display of flower arrangements. During the course of the show twenty-four classes with a total of 159 entries will be staged in these facilities, and, if the pattern of attendance runs true to form, there will be a constant throng of viewers pressing to see them whenever the show is open. What is it that brings the veteran exhibitor back into competition year after year? What does the habitual viewer find of interest in the displays?

Flower arranging competitions begin with the display facilities. The size and shape of the niches, the position and intensity of the lights (which are often changed by the exhibitor) and the color and size of the stands and pedestals in the spaces all play a part in determining the form of the finished exhibit.

Next comes the schedule of classes, each with a name and written description suggesting the theme of the class. Here are some examples taken from the schedule for this show: "A La Carte—a still life inspired by a world famous restaurant, to be named"; an abstract composition suggesting the flight of a bird; "Fan-Fare, a composition of flowers and one or more fans"; "The Velvet Touch, an arrangement of carnations and other plant material with a velvet background. Carnations must dominate". These descriptions are designed to challenge the exhibitor and at the same time to produce displays that will be pleasurable and memorable for the viewer.

All the arrangement classes are in competition, and the entries are ranked by accredited judges who have earned this status through extensive experience supplemented by formal training. In the last analysis, the ranking of entries is based on the expert opinion of the judges. (There are three judges for each class.) But there are some well-established rules which all judges follow and all competitors should know. The arrangement must conform strictly to the schedule, although the interpretation can be exactly literal or highly imaginative. All flowers and plant material must be of the best quality; if it is also a new or unusual variety, so much the better. No out-of-season material should be used (chrysanthemums should not be used in a spring show). Most important is the overall effect which should be one of unity in style and feeling. The various parts of the display must complement one another and blend into a complete finished picture conveying a single strong impression.

Flower show arrangements are generally bolder and more dramatic than would be suitable for use at home, but the home arranger will nevertheless learn much by studying them. Note, for example, the relationship in shape, color, and texture between the plant material and the container, the use and combination of colors, and the variety of flowers. Above all, read the judges' comments on the individual exhibits. They will direct your attention to aspects of the arrangement you might otherwise overlook.

While artistic taste is essential to the conception of a prize-winning flower arrangement, the actual creation requires a knowledge of flower arranging techniques and considerable skill in employing them. The basic technique is the mechanics of holding the components of the arrangement in place. Many devices are available for this purpose. Flower stems can be impaled on the vertical spikes of a "pin-holder" or inserted in a wad of crumpled chicken wire or a lump of a special waterholding compound called Oasis. Whatever method is chosen, the wise exhibitor makes sure that the mechanics for holding the material is firmly anchored before beginning the arrangement.

The first step in the actual arranging process is to establish the height of the display by placement of the tallest flower or foliage. Next comes the establishment of the width, and finally the body of the arrangement is filled in with greens and flowers. Lighter colors are placed above darker ones. Variations in shape add interest—something tall and spiky (stock or snapdragons), something round (carnations), something pendulant (freesia or fuchsia). Niche arrangements must fit comfortably within the alloted space, neither touching the walls nor protruding from the open front.

The container, the accessories (if any), and the background are as important as the plant material. The container and accessories should be in keeping with the flowers in the display; rustic pottery for marigolds, zinnias or calendulas; driftwood with forced spring flowers; vases or urns of glass or alabaster for formal flowers such as freesias, roses, carnations, orchids or ranunculas. Backgrounds can be chosen to blend with the arrangement, or to accentuate it by contrast.

A successful flower arrangement is a combination of fine plant material in a suitable container displayed against an appropriate background. Success in competition comes to those who are willing to devote meticulous attention to every detail without losing sight of the overall design.

Distinctive Arrangements From The '66 Flower Show



1. Mrs. H. B. King



2. Mrs. J. Pancoast Reath



3. Mrs. Harry C. Groome, Jr.



4. Mrs. Pinckney B. Reed



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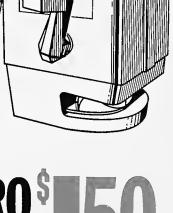
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GARDEN CLUBS IN THE DELAWARE VALLEY

The development of garden clubs in America began after the turn of the century and from the beginning, they have justly taken pride in their service to the community at large. Their programs have always included activities to improve the gardening skills and knowledge of their members and many have devoted at least as much time and effort to civic beautification and the conservation of natural resources. Their projects have been varied. We present herewith a listing of 74 local clubs and some of their recent civic contributions.

Allentown Garden Club

Instituted and maintain Arboretum in Cedar Parkway. Garden therap yat Good Shepherd Home. Landscaping awards.

Associated Garden Clubs of Delaware County

Four flower shows in a year.

The Garden Club of Bala-Cynwyd

Garden therapy at Methodist Home. Landscape work at Library. Assist Neighborhood Garden Association.

Bethlehem Garden Club

Planting Linzendorf Platz Community garden. Garden therapy at State Hospital and Wiley House workshop for children.

Bryn Mawr Spade & Trowel Club

Plantings at Coopertown School.

Burholme Horticultural Society

Cooperates with Society activities.

Chestnut Hill Garden Club

Assist with window boxes of Neighborhood Garden Association and with Rittenhouse Flower Market.

Community Garden Club at Wayne

Cooperates with Society activities.

Conestoga Garden Club

Active Work in landscape planning and planting for community Nurses' Association and West Vincent Township.

The Country Gardeners

Tree planting at Childrens Cottage; Contributions to J.J. Tyler Arboretum.

Countryside Garden Club

Community Beautification; Exhibiting arrangements and horticulture,

The Countryside Gardeners

Renovation of Burges-Lippincott House grounds at Falsington; Establishing Parry Trail at Bowman's Hill.

Covered Bridge Garden Club at Valley Forge

Rehabilitation and maintenance of grounds of "Diamond Rock Octagonal Schoolhouse", Malvern, Pa.

Cross Country Garden Club

Raise funds for Scholarship aid and plants for Delaware Art Center.

Dogwood Garden Club of Princeton

Planting trails with native shrubs at Herrontown Woods.

Garden Class of the Women's Club of Downingtown

Plantings featuring daffodils at public buildings, Veterans' Hospital and town flower boxes. Bulb project for schools.

The Garden Club of Drexel Hill

Planting at Massey House; Garden therapy at Embreeville State Hospital.

The Evergreens

Identification and labeling of trees and shrubs at Chestnut Hill Hospital; Assisting Neighborhood Gardens Association.

Fairless Hills Garden Club

Work on trail at Bowman's Hill Wild Flower Preserve. Made wreaths for Veterans' Hospital.

Four Counties Garden Club

Very active in Neighborhood Gardens Association and in the Rittenhouse Square Flower Market.

Four Seasons Garden Club

Cooperates with Society activities.

The Gardeners

Cooperates with Society activities.

The Garden Workers

Work with gardens and lawn of Strawberry Mansion, Sweet Briar, Cloister of Philadelphia Art Museum.

Germantown Garden Club

Harshberger Trail at Bowman's Hill; Active in Neighborhood Garden Association.

Gettysburg Garden Club

Beautification of the Lincoln Square; Landscaping of the Adams County Library.

Haddonfield Garden Club

Landscaping high school; planting public areas; flower arrangements for library.

Hill and Hollow Garden Club

Landscaping Old Forge School; Arbor Day for four schools; Horticultural lectures for high school.

Horticultural Society of South Jersey

Cooperates with Society activities.

Huntingdon Valley Garden Club

Prepared exhibit "Christmas Traditions Around the World" shown in Jenkintown store for a week.

The Garden Club of Lansdowne

Give a Conservation Workshop scholarship; Have Arbor Day planting at school; Assist Girl Scouts.

The Club of Little Gardens of Malvern

Plantings at Malvern Post Office; Therapy and Arrangements at Valley Forge.

Men's Garden Club of Delaware Valley

Medicinal Trail-Bowman's Hill Wildflower Preserve; The Pinetum-Tyler Arboretum

Middletown-Odessa Garden Club

Civic Beautification in Landscaping David Wilson Manse Gardens.

Mill Creek Valley Garden Club

Assist Neighborhood Gardens Association.

The Gardeners of the Woman's Club of Newtown Square

Construction and maintenance of Phoebe Massey Herb Garden, Massey House, Broomall, Pa.

Norland Garden Club

Beautification of Franklin Farms, Franklin County Home for the Aged.

Norristown Garden Club

Encouragement of fine horticulture and community beautification; Flower Show for public in Plymouth Meeting Mall.

Old York Road Garden Club

Sponsor of Bog at Bowman's Hill; Flower Show in Jenkintown Public School.

Outdoor Gardeners of Montgomery County

Plant and Maintain window boxes in winter and summer; Beautification of Water Tower Recreation Center.

Penn Valley Garden Club

Flowers for Inglis House; Bowman's Hill marigold trail.

Garden Club of Philadelphia

Neighborhood Gardens Window Boxes; Care of Mt. Pleasant Garden; Work at Bowman's Hill.

Pine Ridge Garden Club

Beautification of entrance to Pine Ridge; maintenance of plantings.

The Planters

Neighborhood Garden Association; Wissahickon Valley Watershed Association; Rittenhouse Square Flower Market.

Providence Garden Club of Pennsylvania

Community Garden Clubs Spring Flower Show; May Plant Sale at Tyler Arboretum.

Rose Garden Club

Combination of horticulture, flower arranging, conservation and charity.

Rosemont Garden Club

Club Christmas Show; Decorations for Margaret Perry Nursing Home.

Rose Tree Gardeners

Landscaping Child Guidance Clinic; Wallingford Library; Crozier-Chester Medical Center.

Shawosa Garden Club of Salem County

Planting and maintaining garden of Historical Society; Garden block program of Neighborhood Garden Association.

Silver Pine Garden Club

Building nature trail, Forest Oak Elementary School.

The Society of Little Gardens

Rittenhouse Flower Market for 52 years; Neighborhood Gardens; Red Cross Christmas House Tour; Bowman's Hill.

Garden Club of Springfield

Cooperating with Shade Tree Commission in making shade trees available to underplanted areas.

Spruce Hill Garden Club

Developed and maintained four city lots which were debrisstrewn; Planting Crape Myrtle throughout the area.

The Suburban Garden Club

Plantings at the Haverford State Hospital.

Timberlane Garden Club

Landscaping a large portion of the "Girls Club of Wilmington".

Town Gardeners

Identification and labeling of trees in Everhart Park; Garden for Visiting Nurse Building.

Town & Country Gardeners, Audubon, New Jersey

Garden Therapy at Lakeland Hospital; Beautification of Civic Center in Audubon; Spring Flower Show.

Town & Country Garden Club of Coatesville, Pa.

Chrysanthemum-growing project in local school; Decorations for public library; Art show.

Town & Country Garden Club of Lancaster

Restoration of Garden at Child Development Center, Lancaster, Pa.

Garden Club of Trenton

Maintenance of William Trent House Gardens; Outdoor education in Conservation.

Trevose Horticultural Society

Making of wreaths and gifts for local hospitals.

The Trowellers

Support of Delaware County garden projects; Study of Conservation.

Garden Class of Women's Community Club of Uwchlan

Co-sponsored large community improvement project. Weekly flower arranging at Valley Forge Hospital.

The Valley Garden Club

Wreaths and centerpieces for Valley Forge Hospital; Assist Roadside Council and Visiting Nurses Association.

Valley Forge Garden Club

Landscape work and planting at Valley Forge School and in community.

Village Garden Club

Garden Therapy with children at Watson Home for crippled children.

Martha Washington Garden Club

Plantings at Yardley Bridge; instrumental in preserving open space in Yardley-Makefield.

Weed and Seed Garden Club

Participate in annual show of Delaware Federation.

The Weeders

Cooperate with Society activities.

West Chester Garden Club

Sponsor a window box project in West Chester.

Garden Club of Wilmington

Plantings in public park.

Wissahickon Garden Club

Initiated community dogwood planting in Chestnut Hill; Planting at railroad station; Work for hospitals.

Woodland Garden Club

A small flower garden; garden therapy and decorations for Abington Hospital.

Garden Club of York

Identification of wild flowers in Pinchot Park; Plantings at Indian Steps Museum and local historical restorations.

Garden Club of the YWCA of York, Pa.

Beautification of YWCA camp. Sponsor Junior Garden Club.

PLANT SOCIETIES IN THE DELAWARE VALLEY

To satisfy the desire of gardeners who want to become experts in a particular area of horticulture, or in the culture and development of a single genus of plants, at least 40 specialized organizations have been formed over the last fifty years. They afford their members access to detailed and comprehensive knowledge in rather narrow fields of concentration. These societies issue regular bulletins or journals, which are authoritative references for students, hobbyists and researchers.

Twenty-three local branches or chapters of 16 national societies are active in the Delaware Valley. They meet regularly and welcome new members who share their special interest.

African Violet Society, Inc.

African Violet Society of Phila. Mrs. Henry LaBadie, Pres. 37 Dolton Road Feasterville, Pa. 19047

The Phila. Center City African Violet Society

Mrs. Francis Paul, Pres. 117 Locust Ave. Westville, N.J. 08093

American Begonia Society

Elsa Fort Branch Miss Lola E. Price Laurel Springs, N.J. Philobegonia Branch Mrs. Elsa Fort Weber 6123 Cedar Ave. Merchantville, N.J. William Penn Branch Mrs. Frederick A. Fasel, Pres. R. D. #1, 80x 248 West Chester, Pa.

Pennsylvania Bonsai Society

Robert E. Montgomery Ash Grove Farm Meeting House Lane New Hope, Pa. 18938

The Bromeliad Society

Delaware Valley Bromeliad Group Patrick Nutt, Pres. Hamorton Kennett Square, Pa. 19348

Cactus & Succulent Society of America, Inc.

Phila. Cactus & Succulent Society Mrs. Carl Yetter, Pres. 924 Willow St. Southampton, Pa.

National Chrysanthemum Society, Inc.

Delaware Valley Chrysanthemum Society John Gotwals, Pres. 2105 Silver Side Rd. Wilmington, Del.

Men's Chrysanthemum Club of Norristown

Walter L. Daub, Pres. Hi-Winds Farm Hatfield, Pa.

American Dahlia Society, Inc.

Greater Philadelphia Dahlia Society Stanley Johnson, Pres. Pennypack, 406 Franklin Ave. Cheltenham, Pa.

American Gloxinia Society, Inc.

Delaware Valley Chapter Paul Mitchell, Pres. 330 Union Ave. Runnemede. N.J. 08076

Holly Society of America

Mt. Holly Chapter Earl H. Robinson, Pres. Medford Nursery Eayrestown, Red Lion Rd., R.D. 1 Medford, N.J. 08555

American Iris Society

Delaware Valley Iris Society Norman Clouser, Pres. 218 Raymond St. Hyde Park, Reading, Pa.

North American Lily Society

Middle Atlantic Lily Group Walter Andress, Pres. Broadview Bethel, Del.

American Orchid Society, Inc.

Greater Philadelphia Orchid Society Moyer Amarnek, Pres. 518 Vincent St. Spring City, Pa. Southeastern Pennsylvania Orchid Society, Inc. Melvin Thomson, Pres. 244 Chamounix Circle Wayne, Pa.

American Rhododendron Society

Philadelphia Chapter Francis J. Sholomskas, Pres. 1526 Vernon Rd. Norristown, Pa. 19401

American Rock Garden Society

Delaware Valley Section Lee M. Raden, Pres. Schyttee on Pickering Chester Springs, Pa.

American Rose Society

Delaware County Rose Society
John A. Borneman, Jr.
1208 Amosland Rd.
Prospect Park, Pa.
Penn Jersey Rose Society
Lewis C. Gross
522 Market St.
E. Patterson, N.J.
Philadelphia Rose Society
Stanley S. Atkins
Box 173, Jenkintown, Pa.
West Jersey Rose Society
Raymond J. Krause
203 Denver Ave.
Westmont, N.J. 08108



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D. BRAUKLYS NURSERY

BREADY & SWARTLEY Hatboro

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BROUSE BROS. NURSERY Norristown

. J. BRUSCA NURSERY Huntingdon Valley

CHELTENHAM EVERGREEN NURSERIES Cheltenham

CORDUS NURSERY Huntingdon Valley

COUNTY LINE LANDSCAPE NURSERY Harleysville

DE KALB NURSERIES Norristown

DRESHER NURSERIES

CHARLES H. GALE Ambler

THE GARDEN SPOT Oreland

HANSEN BROS. NURSERIES King of Prussia

HANSEN'S GROUND COVERS Narberth

HATFIELD NURSERY Hatfield

HEXAFOOS FARM

Royersford

HEYSER LANDSCAPING Norristown

LAUSTER'S NURSERY

LONE MAPLE GARDEN NURSERY

Horsham

J. FRANKLIN MEEHAN & SONS Center Square

F. D. MODRE & SONS Narberth

OAK LANE GARDENS NURSERIES.

POSSOM HOLLOW NURSERIES Philadelphia

RICHARD SCHWOEBEL

SEIZ DOGWOOD NURSERY

OSCAR SENN & SONS King of Prussia

STIPA'S NURSERY Glenside

VICK'S WILDGARDENS Gladwyne

THE WHITEMARSH NURSERY Plymouth Meeting

WINDOVER NURSERY Gwynedd

LEHIGH COUNTY:

BETTER HOMES LANDSCAPE CO. Allentown

FORREST TREE SERVICE Breinigsville

JORDAN SPRINGS

Allentown

KUCSAN'S NURSERY Bethlehem

KUSS BROS. NURSERY Alientown

LICHTENWALNER'S NURSERY Allentown

PARKLAND NURSERIES

PENNY'S NURSERY

Orefield

Mertztown RUSSOLI'S NURSERY

J. K. SCHAEDEL & SONS Allentown

SHELLHAMMER'S NURSERY Allentown

SHERWOOD NURSERY

Bethlehem

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PHARO GARDEN CENTER Bethlehem

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PUBLIC GARDENS IN AND NEAR PHILADELPHIA

Philadelphia enjoys a reputation of being one of great horticultural centers of the country. It has many fine gardens which are open to the public. Time spent studying the ornamental trees, shrubs and herbaceous plants in these gardens is well invested. Even the informed gardener can find new and interesting challenges.

Listed herewith is a directory of botanic gardens, arboretums and similar establishments all worth seeing.

AMBLER CAMPUS OF TEMPLE UNIVERSITY

Meetinghouse Road, Ambler, Pa.

Large herbaceous borders, collection of woody plants, wildflowers. (Campus closed in August.)

THE ARTHUR HOYT SCOTT HORTICULTURAL FOUNDATION OF SWARTHMORE COLLEGE

Magnolias, flowering cherries, crabapples, lilacs, hawthornes, Dexter hybrid rhododendrons, daffodils, tree peonies.

AZALEA GARDEN, FAIRMOUNT PARK

East River and Aquarium Drives

Four acres containing over 2000 azaleas in addition to many rhododendrons, dogwoods and spring-flowering bulbs.

BARTRAM'S GARDENS

54th and Elmwood Ave. (on the Schuylkill), Philadelphia America's first botanic garden, established by John Bartram (1699 - 1777). Original house and barn. Plants and trees of the kind planted by Bartram and his son, William.

BOWMAN'S HILL WILDFLOWER PRESERVE

Washington Crossing State Park

1,000 species of native Pennsylvania plants, along twelve marked trails. Bird banding station.

DREXEL LODGE

West Chester Pike, Newtown Square, Pa.

Unusually large collection of daffodils in hundreds of varieties.

CHARLES E. ELLIS SCHOOL FOR GIRLS ARBORETUM

Newtown Square

Wide variety of woody ornamentals.

Open to the public by permission in advance.

INDEPENDENCE NATIONAL HISTORICAL PARK

Philadelphia

18th Century gardens at 4th and 3rd on Walnut; Magnolia garden at 4th and Locust; Independence Mall.

JAPANESE GARDEN AND HOUSE

Fairmount Park

Lake, rocks, oriental plantings, enclosed by Japanese fencing.

LONGWOOD GARDENS

Kennett Square, Pa.

Extensive formal gardens, rock garden, water lilies, special plant collections, year-round conservatory displays.

THE MORRIS ARBORETUM OF THE UNIVERSITY OF PENNSYLVANIA

Chestnut Hill, Philadelphia

Mature specimens of temperate tree species, evergreens, oaks, hollies, drug plants, fernery, rose garden.

SWISS PINES PARK

Charlestown Road, Valley Forge

Japanese and Polynesian gardens, garden of native ferns and plants; rose, herb and heather gardens.

TAYLOR MEMORIAL ARBORETUM

Ridley Road, Chester, Pa.

Shrubs and trees suitable for suburban landscaping; heaths and heathers.

TINICUM WILD LIFE PRESERVE

Philadelphia

Open for nature observation and fishing. Some 235 different species of birds have been recorded from the Preserve and its immediate environs.

JOHN J. TYLER ARBORETUM

Lima, Pa.

Century old specimens of Sequoia gigantea, Cedrus libani, Picea orientalis, and other trees; garden for the blind; "Pink Hill"—a serpentine barren covered with moss phlox in May; azaleas.

WESTTOWN SCHOOL ARBORETUM

Westtown, Pa.

400 species of trees including 175 conifers. (Use West entrance.)

WINTERTHUR

Route 52, Wilmington, Delaware

The Winterthur Gardens of Mr. and Mrs. Henry Francis du Pont cover 40 acres. Naturalized plantings of spring flowers and shrubs. Azaleas—over 330 species and varieties. Open April through June.

GARDENING INDOORS

by Ernesta D. Ballard, Director, Pennsylvania Horticultural Society

House plants can be divided into two groups: those which are placed in windows or other favorable places and are expected to grow, and perhaps to bloom, and those that are expected to provide only a decorative shape and a touch of greenery in an unlit corner. Typical of the latter group are the jungle plants with heavy, dark green leaves such as philodendron, sansevieria, Chinese evergreen, pothos and rubber plants. Palms and podocarpus will also maintain their appearance under inhospitable surroundings.

Plants such as these, when placed at a distance from windows, will remain dormant from fall until spring. During this period, correct management consists of actually keeping the plants from growing. Too much heat, too much water and all fertilizer must be avoided; these encourage the weak, pale and unmore exacting care. Since growth and bloom are wanted, light, humidity and temperature are important. Good bright light is essential for plant growth, and sunlight is necessary for blooming. It is because light is scarce during the winter that many indoor gardeners are disappointed with the paucity of the blooms on their flowering plants.

The prescription for better growth and more flowers is not increased amounts of fertilizer but simply increased amounts of sunlight. In locations where there are five or six hours of direct sun each day, there are practically no plants which cannot be grown and few which cannot be brought into festive bloom. Contrary to the warnings sometimes seen, no amount of winter sun will harm any of the plants grown indoors.



An indoor garden in a contemporary house in Gladwyne. Photo by Edmund B. Gilchrist, Jr.

sightly growth which occurs where light is insufficient. Toward the beginning of summer the plants should be moved to a shady place outdoors. There, the increased light and humidity will reactivate the photosynthetic process, and the plants will put forth new growth and store away food to last through the

next long winter.

FLOWERING PLANTS

The other group—which includes all the best loved flowering plants for indoor growing—requires much

If a sunny window is not available, non-flowering foliage plants and ferns can be as effective, particularly when interspersed with forced bulbs some of which will bloom without benefit of sunlight.

HUMIDITY

Lack of humidity in the air will cause the desiccation and burning often blamed on sunlight. Only in the deserts is the air as dry as it is in the average living room. The wise indoor gardener will take steps to compensate for this by placing pots on wet sand, pebbles or a similar medium and by wetting foliage and the air in the vicinity of the foliage with a fine spray of water to increase humidity. Three

times a day would not be too often to do so, and once a day is practically a necessity if there is to be any appreciable change in the relative humidity of the air around the plants. Garden supply centers offer a variety of atomizers which can be used to spray a mist of water into the air.

TEMPERATURE

Plants grown on window sills are sometimes subjected to severe drops in the temperature if nights are cold. African violets, begonias and other natives of the tropics suffer serious setbacks if the temperature falls below 55°F., as it often does just next to the glass. Soaring daytime temperatures seldom cause serious harm, but chilly nights can result in damage which often is not apparent but which may take weeks to overcome. Check the night temperature on your plant window sill on winter nights; if it is uncomfortably low, perhaps that will explain any difficulties you may be having. Plants from the sunny open plains of the subtropics grow well in places which are consistently cool at night.

Knowledge of a plant's habitat will help in determining if it can be expected to grow or bloom indoors. Those from the tropics where the temperatures are consistently high are best for warm window sills and rooms, and plants from the rain forests need high humidity. Some of the epiphytes can live in fairly dry locations. Plants from the subtropics and from the mountains of the tropics where the night temperatures are lower are good choices for cooler locations. Plants which grow naturally in the north or south temperate zones are generally unsuitable for house culture because if the temperature of their roots and tops does not drop nearly to the freezing point in the winter, they are unable to grow indefinitely.

To learn a plant's habitat, all that is necessary is to know the plant's botanical name; few are sold today without proper labels. Knowing the botanical name, you need only use one of the reference books found in the library of the Pennsylvania Horticultural Society to find the plant's original home and detailed information about its culture.

PLANT SUGGESTIONS

For more or less continuous bloom, in windows getting at least five hours of sunlight: browallia (*B. speciosa major*), oxalis, streptocarpus hybrids, wax begonias, hibiscus, cane-type begonias, geraniums and impatiens.

For window sills having only about two hours of sunlight, the following plants will provide some bloom: African violets, rhizomatous begonias, citrus plants (grown from grafts or cuttings, not seeds), and the black-eyed Susan vine (*Thunbergia alata*.).

Every house and every window sill is different. Some experimentation will show each gardener what he can and what he cannot grow. It is good to try a wide range of different species.

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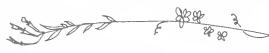
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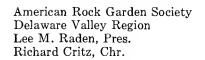
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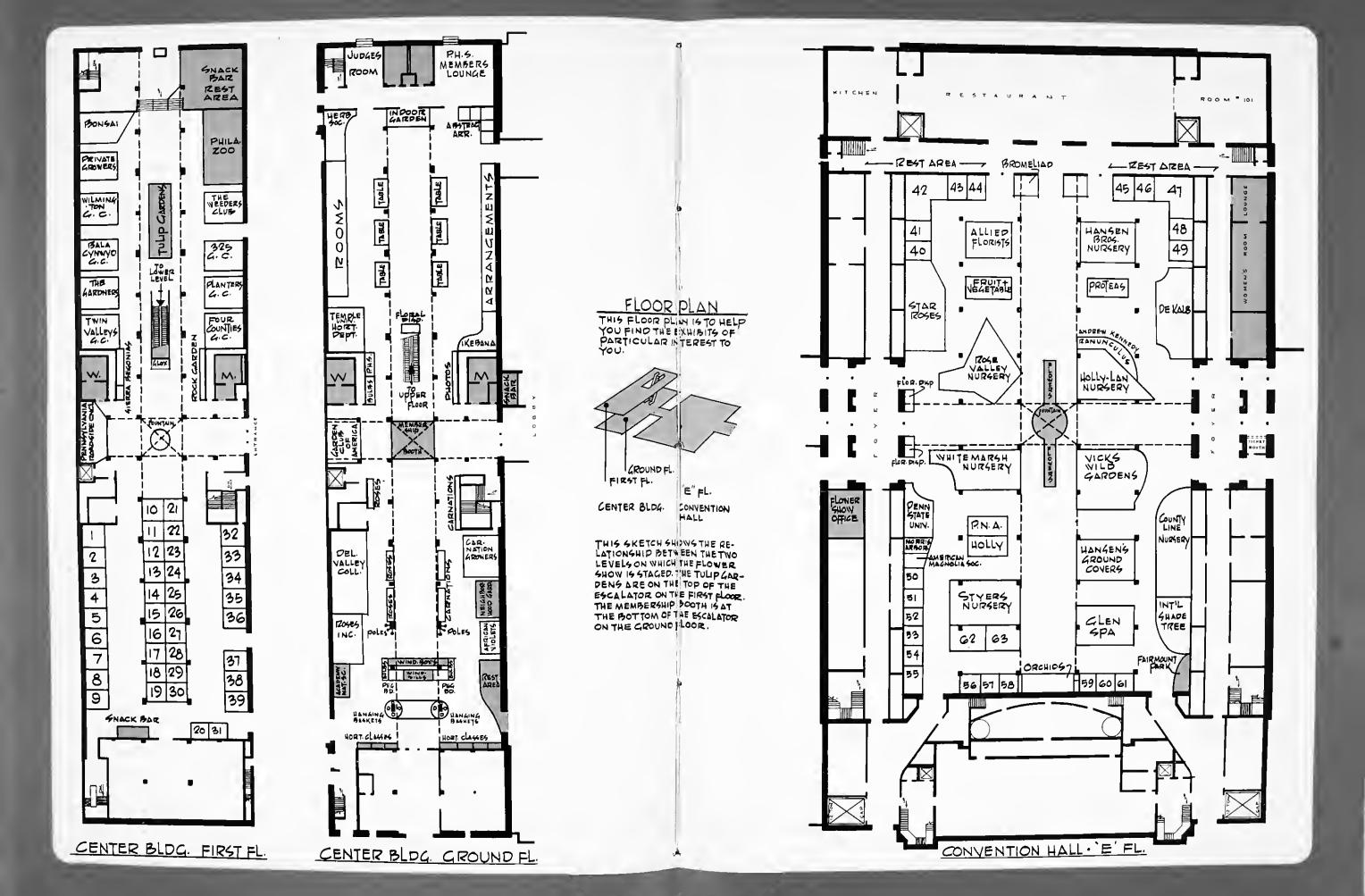
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27 P.O. Box 397
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33, 1255 University Avenue

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14 Dirk Visser & Company P.O. Box 395 Ipswich, Massachusetts Flower bulbs

36 The Wright Company 1603 19th Street N.W. Washington, D.C.

Driftwood novelties; flower arrangers

DROUGHT-RESISTANT GARDEN

By Patricia Spollen-Garden Editor of The Evening Bulletin

There are more ways than one to beat the drought—four ways, at least.

Since we're almost certain to have excessively dry weather some season, if not this season, it's wise to use all possible aids, at planting time, to garden survival. Select the least thirsty species, first.

Then make soil for them as water retentive as possible. And use water economically, especially when supplies run low. The fourth aid is a mulch to hold moisture in the ground.

You won't want to push the idea of planting drought resistant species too far. If you yearn for lilacs in May, for instance, you may be willing to put up with a slightly sagging specimen in midsummer, or to go to extra lengths to keep it moist enough.

But if something else would please you just as much in the same location, why not have the drought resister? Among annual flowers, for instance, you can find ground-hugging portulaca, six-inch-high California poppy and nasturtium, marigolds and zinnias in a range of heights from as little as six inches to over three feet, gloriosa daisy at about three feet, and four-foot Torch tithonia.

If you want perennials that are as nearly drought resistant, nothing is better than hollyhock, with roots that dig so deep they easily find moisture in the lower depths even when the top six inches of earth is dry as a bone. Gaillardia usually fights—and wins—through even serious dry seasons.

Irises and daylilies can take it. Perennial cornflower and helenium can be put on the drought-resistant list, too.

Among summer-flowering bulbs, dahlia is a drunkard and should either be left off a drought-conscious gardener's list or else well mulched and watered thoroughly with such water as you have. Other summer garden bulbs don't suffer so much from lack of moisture, but none of them really stars in this respect.



Hollyhocks

Photo by Roche



Photo by Roche

If you want summer bulbs, use the other three aids. Plant some in pots, slip them inside larger pots, fill the space between with moist peatmoss. Sink the whole works in a tub of water for a thorough soaking once a week or put them in the garden pool. If you have a drippy clothesline, you can get some pot plants watered under it when there's a desperate shortage!

With shrubs, the big factor is not the built-in drought resistance of the species but the age of the plant. All young shrubs are thirsty; many older ones have deep enough roots to survive. Keep this in mind if there's enough water for some but not for all.

Besides age, the natural rooting depths of various shrubs affects their drought resistance. Azaleas and rhododendrons always are comparatively shallow rooted; besides being watered when they begin to look rusty they ought to be planted in light peaty moisture-holding soil and mulches.

Drought survival can be gauged, if not exactly measured, by other traits of both shrubs and trees. The smaller and tougher the leaf, the more likely it is to hold moisture. That makes needled evergreens the toughies in the shrub and tree department. Needless to say, not many people would want a whole garden of needled shrubs and trees, but you might keep this asset in mind if you can't make up your mind between needles and broad leaves for a certain location.

Dogwoods suffer in dry periods. Give them preference during water shortages.

Peatmoss, of course, is the big thing to dig into soil to increase its water retention capacity. But generally good soil is just as important—fertile, not so compacted that

water runs off, suited to the other requirements of the species.

Basic rules for getting the most from the water you have are to avoid light sprinklings; water thoroughly when you do it even if that means less frequently; soak once a week deeply rather than every day or so in small doses.

"Dish" the soil around a prized shrub or tree. Push up a mound of earth, about four inches high, all around the base of the plant. Put it out a few inches from the widest branches. This becomes a water-holding dish that makes the most of water, directing it down around roots.

It's good practice to dish newly planted large stock any season, raking the mound down again in December. It can become an ice trap in winter.

Mulch, preferably in early May. A covering of moist peatmoss about one inch thick, a covering of hay in the vegetable plot, other commercial mulching materials over the ground hold moisture under them.

What about lawns? New ones need water most; if you've just seeded grass you must keep it moist till it sprouts. Good soil preparation encourages good rooting, and remember that deeply rooted turf is most likely to come through.

If worst comes to worst and a lawn does brown up in summer, wait. Hope for cool fall days. Turf can recover even after blades look seriously ill or even dead.

Vegetables? Mulch. Water what you can. Lawns and vegetables are undoubtedly the most difficult things to see successfully through a water shortage, but that makes the challenge of gardening.

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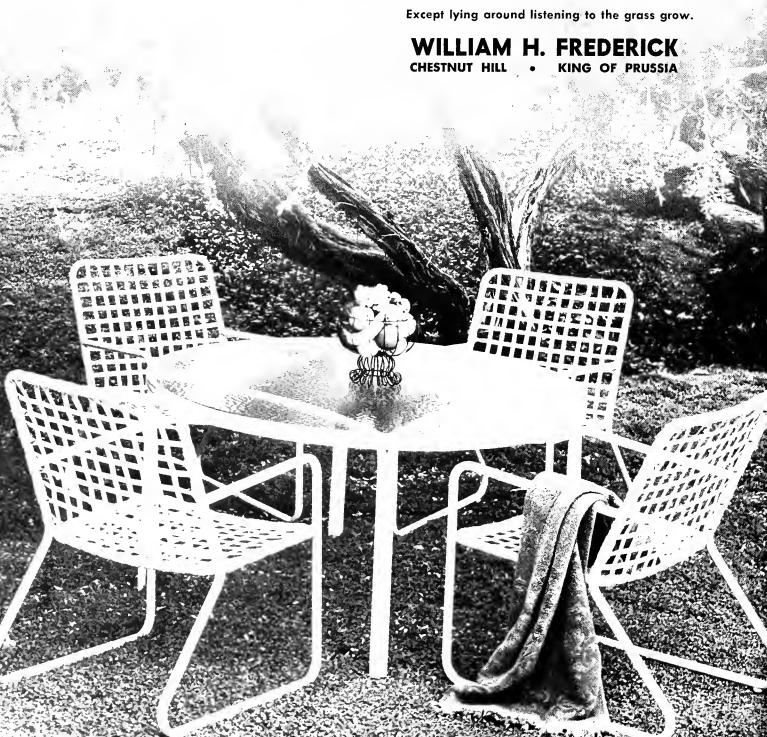
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ANNUALS FOR SPRING BLOOM

By Florence S. Baker, Garden Editor of Philadelphia Inquirer

A panorama of spring is being presented at the Philadelphia Flower Show this week. By careful planning, control of light and heat, plants are shown in full bloom to inspire winter-weary gardeners to duplicate the beauty in their own gardens.

Home gardeners will find a wealth of helpful information and practical suggestions to take home to adapt to their own individual tastes and interests.

One of the most rewarding and challenging parts of gardening is starting plants from seeds. According to a Chinese proverb, "All the blossoms of all the tomorrows are seeds today"—and one of the quickest ways to get blossoms is to grow annuals.

Annuals are of two types—hardy and tender. If the seed packet says "Plant after the soil is warm and all danger of frost is past," you'd better do just that.

Tender annuals sprout fast when the soil is warm, but rot in a cold, wet garden. If planted too early



Marigolds (Butterball) and Alyssum ("Lavender Queen")





Mexican Zinnias

outdoors they become so stunted that they never grow properly and are passed by plants of the same kind started weeks later. So it is best to wait until the middle of May before you plants seeds of tender annuals such as zinnias and asters outdoors.

Hardy annuals may be planted outdoors now, even though there is still danger of frost. The hardy annuals actually germinate better when given conditions which alternate warmth in the daytime and chill at night.

These hardy flowers like to get a head start over the tender annuals and bloom best when they can reach maturity before it turns too hot. The seeds to sow outdoors now are such varieties as nigella, alyssum, larkspur, bachelor buttons, sweet peas and Shirley poppies.

Starting your tender annual flowers indoors now is one of the keys to early-blooming flowers in the garden. The time to start them is six to eight weeks before you expect to transplant them to the garden.

Seeds can be planted in practically anything from an egg shell to a coffee can, milk carton, flower pot or flat. There are even trays that come already planted with seeds, and all you do is add water, set the tray in a sunny window and watch the plants grow.

Seeds can be started in perlite, vermiculite or screened sphagnum moss and the plants moved to a soil mixture as soon as the first true leaves appear.

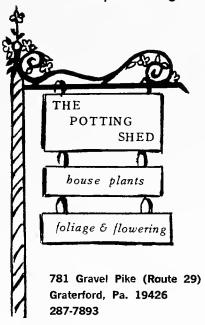
Or a thin layer of sphagnum moss, spread over the soil can be used to sow the seed in, covering lightly with similar moss.

Sow your seeds to a depth of three times the diameter of the seed. Very fine seeds can be sprinkled on top of the soil and pressed down gently. When sowing seeds, be careful not to sow too thickly. Crowded seedlings grow rapidly but become tall and thin, making them less desirable and more difficult to transplant. Seed which is scattered thinly will produce sturdier seedlings.

Water and cover with a piece of glass and paper until they germinate. Use care in watering after they come up, for too much water rots seedlings. Without enough water, tender young plants can shrivel quickly on a bright sunny day. Too high a temperature and not enough light will make plants spindly or leggy. Transplant when seedlings have two sets of leaves.

The sowing of your seeds now indoors will give you a better and more colorful garden earlier this summer and will guarantee with every sprouting seed that spring is just around the corner.

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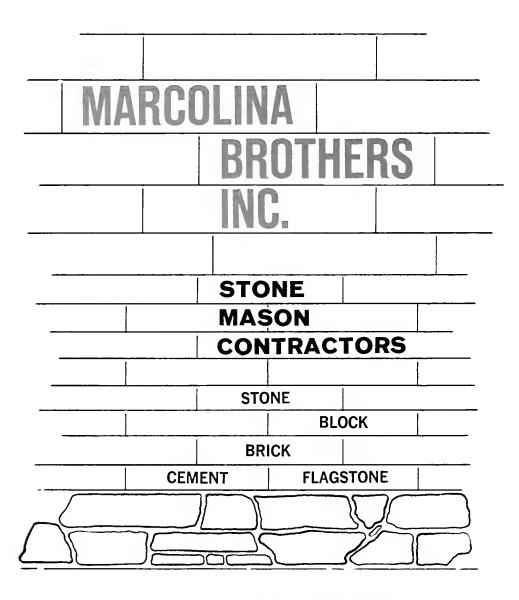
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The Potting Shed keys each plant to guide you to its specific preference for temperature, location in the home, light requirements and watering needs. We also label every plant with its correct botanical name as well as its everyday name.

We hope you will visit us soon. We shall be happy to serve you, share experiences with you, help you solve your plant problems, answer your questions and if we do not know the answers, get them for you.

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TWENTY VALUABLE SHRUBS FOR THE DELAWARE VALLEY

by Owen B. Schmidt, Member, State Board of Landscape Architects

Tall growing Shrubs

- 1. Viburnum sieboldi (Siebold Viburnum). Ultimate height 30 feet; white flowers in May; orange yellow fruit in clusters in July or August. This shrub can be used in place of a small tree.
- 2. Viburnum prunifolium (Blackhaw Viburnum). One of our native shrubs; ultimate height 20-25 ft; flowers white; fruit changes color from green through red to black; excellent fall color of bronzy red and yellow; a wonderful bird shrub.
- 3. Clethra barbinervis (Tree Clethra). Little known in this area; ultimate height 20 ft.; white flowers July or August; sweet scented; attractive leaves all season; fall color yellow.
- 4. Hibiscus syriacus 'Bluebird' and 'W. R. Smith' (Althaea or Rose of Sharon). The former is blue, the latter pure white; excellent large attractive flowers, ultimate height 15 ft. Can be controlled by pruning; blooms in mid-summer when other blooms are scarce.
- 5. Euonymus alata (Cork Bush). Ultimate height 20 ft.; attractive bark in winter; fall color on former red, on latter pinkish red. Brilliant show of small berries which hang late into the winter.
- 6. Prunus maritima (Beach Plum). Actually a small tree; white flowers; delicious edible plum-like fruit; ultimate height 30 ft.; fall color yellow; excellent bird shrub.
- 7. Cotinus coggygria (Smoke Bush). Ultimate height 20 ft.; makes excellent specimen; attractive framework and rounded leaves; flowers white; seed pod red, fading to gray mist, resembling smoke.
- 8. Chionanthus retusus (Chinese Fringetree). Ultimate height 25 to 30 ft.; tree like; produces white fringe-like flowers, early spring; female tree produces blue grape-like fruits; excellent for birds; fall color brilliant yellow; very interesting winter bark; should be better known.

Medium Sized Shrubs

- 9. Viburnum ichangense (Ichang Viburnum). Resembles Viburnum dilatatum but more brilliant red berries and more prolific; excellent fall color of reddish yellow orange; attractive dark green leaves all summer; should be used considerably more; ultimate height 10 to 12 ft.
- 10. Viburnum fragrans candidissima (White Fragrant Viburnum). Most attractive white flowers early spring; ultimate height 10 to 12 ft.; fall color orange red and yellow; difficult to find.
- 11. Fothergilla major and F. monticola (Bottle Brush). Ultimate height 10 to 12 ft.; cream yellow flowers

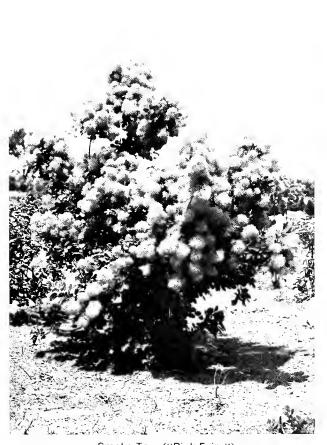
- early spring; resembling bottle brush; very attractive and unusual; excellent fall color.
- 12. Aronia arbutifolia (Red Chokeberry). Ultimate height 8 to 10 ft.; white flowers; fruit brilliant red; very attractive to birds; fall color red, orange, and yellow.
- 13. Dirca palustris (Leatherwood). Ultimate height 10 to 12 ft.; slow growing; attractive small yellow flowers early spring; wood very pliable like leather; excellent foliage throughout summer; fall color yellow; a most unusual shrub.
- 14. Corylopsis spicata and C. pauciflora (Chinese Winterhazel). The former 8 to 10 ft. bearing yellow drooping flowers in March or April; very attractive. The latter 6 to 8 ft. ultimate height; single flowers in profusion, golden yellow; quite unusual; fall color of both —yellow.
- 15. Hamamelis mollis and H. japonica zuccariniana (Chinese Witchhazel). The former 10 to 12 ft. ultimate height; producing sweet scented yellow flowers with red center, early spring; large leaves turning golden yellow in fall. The latter, fringe-like yellow flowers covering entire bush; slender stems and very graceful; excellent fall color of golden yellow; extremely attractive.
- 16. Callicarpa purpurea (syn. dichotoma) alba (White Beautyberry). Ultimate height 6 to 8 ft.; inconspicuous white flowers; noted chiefly for its small white berries in profusion which persist late into the winter.

Small Shrubs

- 17. Vaccinium corymbosum (High Bush Blueberry). Height, 6 to 8 ft.; one of the first to bloom in spring; white pendulous bell-like flowers; twig stems red; excellent to mix through rhododendrons, azaleas and laurel because of its brilliant red fall color; edible fruit and excellent for birds.
- 18. Berberis mentorensis (Mentor Barberry). Ultimate height 6 to 8 ft.; excellent for hedges and wherever protective barriers are needed; a clean looking shrub entire year; attractive green foliage; beautiful red fall color; far superior to Berberis thunbergi, the common Japanese Barberry.
- 19. Deutzia gracilis. Ultimate height 4 to 6 ft.; an old reliable shrub; outstanding, brilliant white flowers; excellent for massing, for hedges, or for individual specimen.
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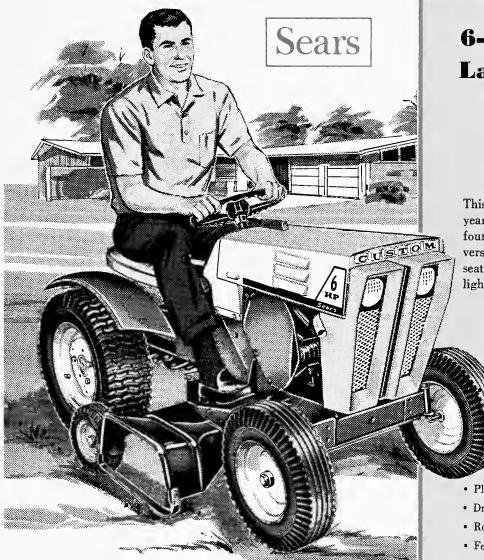
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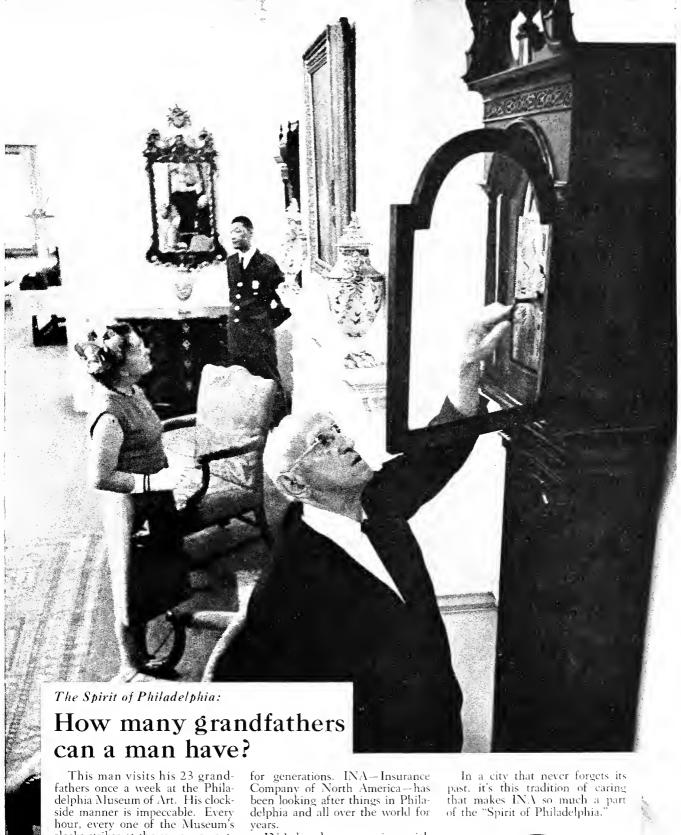
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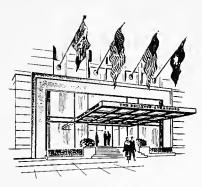
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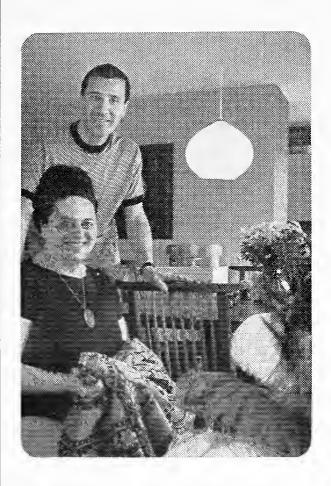
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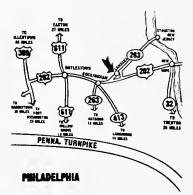
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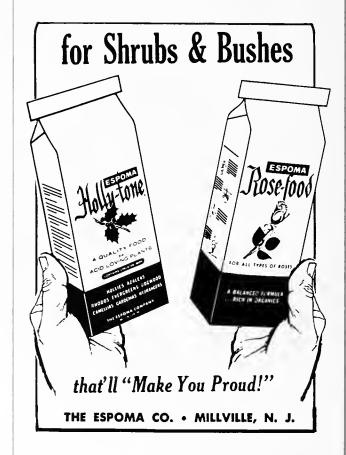
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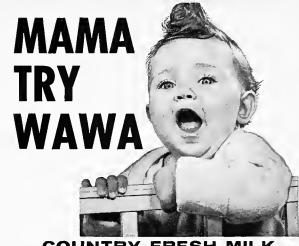
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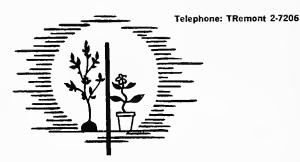
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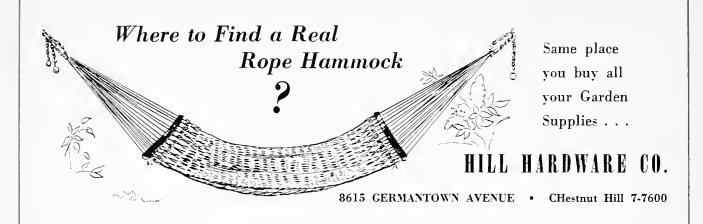


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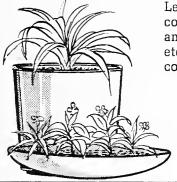
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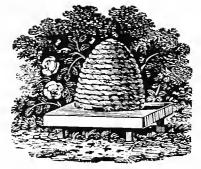
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1968 SPRING FLOWER SHOW PROGRAM THE MAKING OF A FLOWER SHOW

by Mary Rodney Borie

The Spring Flower Show, like Rome, is not built in a day. Planning for this year's Show, in fact, began before last year's Show took place. That this year's Show is being held in the brand new Exhibition Hall is not the reason for such an early beginning—it happens every year.

The architectural firm of Vincent G. Kling and Associates, is responsible for the design of the Show and the layout of the exhibits. The firm began last Spring to draw up plans and present them to the Pennsylvania Horticultural Society (PHS), which is the sponsor of the Show, and to its Flower Show Committee. (About 800 PHS members participate in the Show in one capacity or another.)

After the design was approved, the next step was to build a model of the interior of the Exhibition Hall showing aisles, booths, niches and gardens—and including minature trees. Since late summer the model has been on display at the PHS headquarters where it has been of great assistance to exhibitors in planning their displays.

The Show is made up of 14 nursery exhibitors, an equal number of plant society exhibits, 9 special floral displays, 15 educational exhibits, 7 special exhibits, 9 gardens, 6 tables and four rooms plus the horticultural classes. All the exhibits are autonomous; so coordination is the order of the day. To this end an incredible number of meetings, large and small, formal and informal is necessary. Meetings are held throughout the year to present floor plans to exhibitors, to discuss publicity through posters, radio and TV, newspaper articles and advertising, and, most importantly, to plan and coordinate the Flower Show itself.





The week before the Show opens, the scene shifts to the Exhibition Hall, where the first item on the agenda is to install the basic structures such as the niches for displaying flower arrangements and the bases for the competitive gardens. The next step is the building of the gardens and nursery exhibits, the painstaking arrangements of plant material carefully forced so as to be in top condition. Finally, the morning of the preview (which is held the evening before the Show opens) fresh flowers are brought in for the arrangements.



On this final day, the finishing touches are put on all exhibits; the carpet is put down (now that muddy working shoes are out of the Hall), and festoons of greenery are draped around bare corners. Now everyone waits in the sudden silence of readiness for the long anticipated opening day in the garden wonderland that is the Philadelphia Spring Flower Show.



THE ACACIA AND THE COLLECTION OF MR. & MRS. ROBERT G. STONE

by Marion Laffey Fox

The acacia collection of Mr. and Mrs. Robert Stone has had a long and colorful history. In 1924 Galen Stone, the father of Robert Stone, visited a show at Horticulture Hall in Boston. The mysterious and showy plants, resplendent with delicate yellow blossoms fascinated him; and he purchased sixteen plants, in thirteen varieties from Thomas Roland. The tallest measured seven feet.

Today two greenhouses are necessary to accommodate the resultant two hundred and fifty plants, including thirty varieties. *Acacia pubescens erecta*, the tallest, is twenty-one feet in height.

Stewart Johnson, the gardener at Great Hill, began his tenure the same year as the acacias. He said, "We're always propagating the plants through cuttings, grafting and starting new varieties from seed. We grow them in a heavy clay mixture with sand and peat and cow manure and must be careful to keep the greenhouses at a cool temperature both summer and winter."

The Stone's acacia plants are good travelers. Mr. Johnson attested to the fact, "We first showed the collection in 1931 at the Mechanics Building in Boston, and since then they've been to New York, Washington, New Bedford, Massachusetts, and Springfield, Massachusetts. This is our fifth time in Philadelphia!"

Getting the plants ready for the show is a full time job. The flowering period must be timed precisely. Some plants are placed in a cooler greenhouse to delay flowering while others are put in a warmer environment to hurry them along. Then the task of tying the plants, packing the vans and ultimately setting up the show, tries even the expertise of the Stones and Mr. Johnson. Freezing temperatures could spell disaster and Mr. Johnson notes that—"we just pray for decent weather!"

The acacia and its idiosyncrasies has become the specialty of the Stones. There are about four hundred and fifty species widely scattered over the warmer regions of the world, abounding in Australia and



Africa. True gum arabic is the product of *Acacia senegal*, found in abundance in tropical Africa. *Acacia arabica*, is the gum arabic tree of India, yielding a gum inferior to the true gum arabic. The bark of various Australian species known as "wattles" is very rich in tannin and forms an important article of export; and the seeds of *Acacia niopo* are roasted and used as snuff in South Africa. *Acacia melanoxylon* attains a great size and is known as the beach wood of Australia; *Acacia homalophylla* yields a fragrant timber used for ornamental purposes.

Some acacia varieties bear very long spines or thorns especially the African varieties. Stewart Johnson said they "tend to ignore these varieties because they're too hard to handle." Acacia armata is the kangaroo thorn of Australia and Acacia giraffae, the African camel thorn. In Acacia spadicegera, the large thorn-like stipules are hollow and offer shelter for ants.

In 1570 Francisco Hernandez, a Spanish explorer, wrote of this Bull thorn acacia bush which he had seen on the banks of the Panuco River in northern Mexico. "The tree has leaves resembling those of a tamarind, yellow flowers, edible pods, and horns very like a bull growing upon the tree's trunk and branches. Moreover, within the horns there are generated certain slender ants, tawny colored and blackish, whose sting is hurtful."

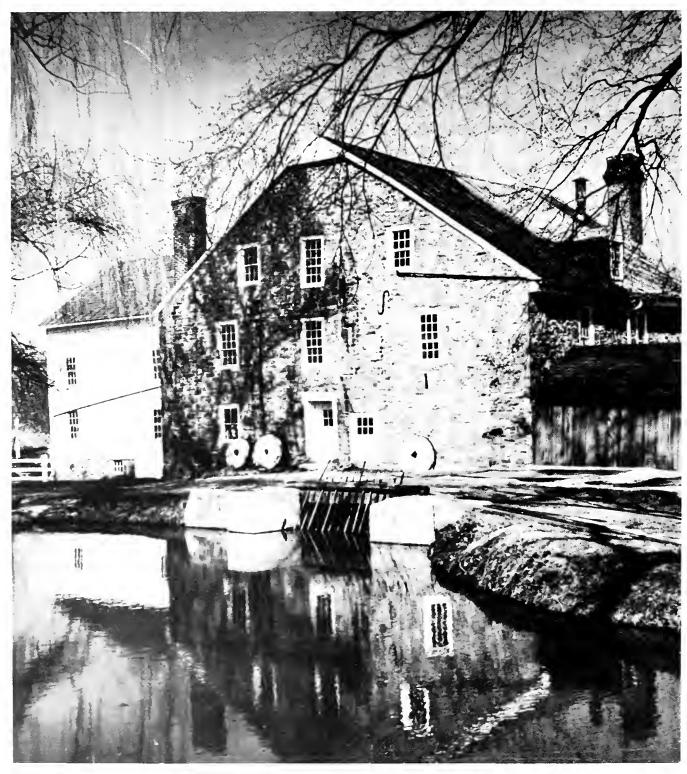
Since that time it has been determined that there are many different varieties of Bull thorn acacias ranging from Mexico to Colombia and varying in size from small shrubs to spreading twenty-five feet trees. Under ordinary conditions nearly every thorn on the bush is an ant castle, filled with a sweet nutritive substance and serving as a shelter for a group of adult ants and their young. It is a happy symbiotic relationship—for the ants have a fearsome patrol foraging about the plant, searching for any predator be he animal, insect or man.

The shaking of a branch is sufficient to rally a swarm of ants to the attack and their sting is so severe it raises a powerful welt that lasts for hours!

From a horticultural viewpoint the most important species are from Australia where the wattle blossom is held in high regard. A few of the multitudinous kinds are grown in greenhouses in the north where they are at one height of their beauty during the cold and gloomy season when flowering plants are scarce, but much in demand. Thomas Roland felt there was nothing "more beautiful and interesting than to see a greenhouse completely filled with Acacia plants in full bloom!"

All Acacias are tropical and they cannot be grown as garden plants in the Delaware Valley.





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SUNDAY, MARCH 10

Class 901—A Colorful City Backyard

Class 902—A Colorful Sunny Area Formal In Feeling

Class 903—Bird Garden

Class 501—Room section blending the Old and the New

Flower Arrangements

Class 502—A table setting

Class 503—Free Standing Arrangement

Class 504—"Time of Day"

Class 505—"Sculpture"

Class 506—"A Dried Arrangement"

Horticulture

Classes 601 through 618

Daffodils, hyacinths, tulips, hanging baskets, foliage plants, orchids, bonsai, espaliers, bromeliads, ferns, terrariums, begonias, perennials, herbs, cuttings.

Classes 651 through 653

Window boxes, lilies, trained ivy

Classes 1001 and 1002—Cut Roses (Commercial)

Classes 1005 through 1019—Carnations

(Commercial)



MONDAY, MARCH 11

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Classes 502, 503 (See Sunday Classes)

Class 507—"The Play's The Thing"

Class 508—"Double Exposure"

Class 509—"Flowers and Glass"

Horticulture

Classes 651 through 653 (See Sunday Classes)

Classes 601 through 618; Classes 1001 and 1002

Classes 1005 through 1019 (See Sunday Classes)

TUESDAY, MARCH 12

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

FLOWER ARRANGEMENTS

Class 502—A Table Setting

Class 510—Free Standing Arrangement:

"Flight of Fancy"

Class 511—White on White

Class 512—"Rouge et Verte"

Class 513—"Down to the Sea"

Horticulture

Classes 701 through 717

Daffodils, hyacinths, musgari, hanging baskets, succulents, windowsill collections, miniature geraniums, bonsai, gesneriads, miniature landscapes, indoor plants, primulas

andscapes, indoor plants, primulas

Classes 651 through 653 (See Sunday Classes)

Classes 1001 through 1002

Classes 1005 through 1019

WEDNESDAY, MARCH 13

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Class 510—Free Standing: "Flight Of Fancy"

Class 515—A buffet table

Class 516—"Art Gallery"

Class 517—"Spring Board"

Class 518—"Flea Market"

Horticulture

Classes 701 through 717 (See Tuesday Classes)

Classes 561 through 653 (See Sunday Classes)

Classes 1003 and 1004—Cut Roses (Commercial)

Classes 1020 through 1034—Carnations

(Commercial)

THURSDAY MARCH 14

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Classes 510, 515 (See Tuesday and Wednesday Classes)

Class 519—"Madison Avenue"

Class 520-"Roses"

Class 521—"4th Street"

Horticulture

Classes 701 through 717 (See Tuesday Classes)

Classes 651 through 653 (See Sunday Classes)

Classes 1003 and 1004—Cut Roses (Commercial)

Classes 1020 through 1034—Carnations (Commercial)

FRIDAY, MARCH 15

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Class 515—A buffet table

Class 522—Free Standing Arrangement:

"Philadelphia Revisited"

Class 523—"Art in Plastics"

Class 524—"The East"

Class 525—"A Child's Bedtime Story"

Horticulture

Classes 651 through 653 (See Sunday Classes)

Classes 801 through 818

Daffodils, hyacinths, tulips, hanging baskets, ferns, horticulturists' collections, bonsai, standards, begonias, alpine gardens, indoor plants, terrace plants, azaleas, cuttings, streptocarpus.

Classes 1003 and 1004—Cut Roses (Commercial)

Classes 1020 through 1034—Carnations

(Commercial)

SATURDAY, MARCH 16 and SUNDAY, MARCH 17

Gardens and Rooms

Classes 901, 902, 903, 501 (See Sunday Classes)

Flower Arrangements

Classes 515 and 522 (See Friday Classes)

Class 526—"Contrasts in Texture"

Class 527—"Orchids"

Class 528—"A Frieze"

Horticulture

Classes 651 through 653 (See Sunday Classes)

Classes 801 through 818 (See Friday Classes)

Classes 1003 and 1004—Cut Roses (Commercial)

Classes 1020 through 1034—Carnations

(Commercial)



ARE PARKS DEAD?

by Peter M. Renner, Horticultural Program Coordinator, Fairmount Park

In recent years it has become "in" to be flatly "down" on something, almost anything, that isn't truly the latest. First it was the thoughtfulness of good manners, next it was God, and now it is parks. A prominent teacher of landscape design has declared that "parks are dead," so it must be so.

Someone should tell the youngsters wading in the fountains in front of the Art Museum, and those hikers in the Wissahickon, and the starry-eved couple walking under the cherry trees along East River Drive. Haven't they heard? Maybe they have, and they are smugly enjoying the fact that droves of Philadelphians stay away from the Park, leaving it nearly empty.

The fact is, that with nearly 8,000 acres of park land in the Fairmount Park system. Philadelphians enjoy more open space than residents of any city in the world. In addition to being the largest, it is also the oldest park system, having celebrated its 100th Anniversary in 1967. Well, alright, you say, so what?

Everyone agrees that parks are important, that they cannot be replaced, that they don't just belong to us but to generations not yet born. So what are we supposed to do about our parks once we've acknowledged their existence and importance?

First, we must realize that not everyone acknowledges the importance of parks. Anyone who proposes roads or buildings on park lands places a higher value on those things than upon open space. We must inform these planners that open spaces are just as important to our well-being as are hospitals, schools, highways or universities.

Secondly, we must use these park areas for both active and passive recreation and encourage others to do the same. The more people there are who use the park, the more people there will be to ensure the continued existence of these public areas. Further, as Thomas Hoving pointed out and demonstrated in Central Park in New York City, the more people there are using a park the less need there is for policing.

Since most of us are quite goal directed, it will be easier to start enjoying Fairmount Park again with a goal in mind. May I suggest a few? The Azalea Garden just North of the Museum of Art, along East River Drive, has something in bloom from March



through June. A lovely gift of the Pennsylvania Horticultural Society, it has recently been given some extra attention and merits several visits each Spring.

The Japanese House and garden, in West Park, just off Belmont Avenue, is a handsome spot to visit any time of the year. It is closed each Monday. There is no admission charge. View the pond and plantings from a seated position on the porch to see how it would appear to a Japanese sitting on the matted floor of his home.

Washington Square, one of the four original squares, has great grace and charm to it. Test your tree knowledge and see how many kinds of trees you know while you're there. Look for the young red oak just planted by the J. B. Lippincott Publishing Co. to mark its 175 years in business.

Once you're back in the pattern of enjoving specific areas of the largest and oldest public park, let yourself wander through the oak groves near the J. B. Kelly Playhouse-in-the-Park. Take a pocket tree guide with you and discover the rich variety there. Wander, also, through the Wissahickon Valley and the Pennypack with a wild flower or bird guide book. Before long you'll find yourself looking forward to an hour or two each week in the park. Together, we can prove that parks are not dead, that they just need people to love and enjoy them.





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HOUSEPLANTS

by Florence S. Baker, Garden Editor of The Philadephia Inquirer



During the winter months, houseplants are apt to suffer from lack of light. Place plants near windows to insure adequate light for good growth.

Many homes are too dry during the winter. Humidity can be increased by setting pans of water in areas where plants are growing or by syringing plants with water at frequent intervals (daily is not too often), or by setting the pots in trays filled with moist pebbles.

Plants left too long in small pots will fill up the soil with roots and stop growing. Some plants will have made much root growth and will require a size larger pot each year. Others can remain in the same pot for several years.

Some plants, if not repotted every year, will not set their flower buds, and if the buds do form, they will dry up and fall off. Plan on repotting several times as the plant grows.

The soil mixture for your houseplant is important. A soil which drains easily is needed. A good basic soil mixture is made up of one-third good garden soil, one-third peatmoss and one-third fine sand.





Now you are ready to pot your plants. First, place some pieces of broken pot or stones over the drainage holes in your container. Then add a small amount of the soil mixture.

If you are planting a bare rooted plant, build this soil into a mound and spread the roots over it. Then add more soil, firming it with your fingers.

If your plant is being repotted from a smaller container, place enough soil in the bottom of the larger container to raise the level of the soil ball around the roots to one-half inch from the top of the new container. Then fill the space between the ball and the container with soil.

Don't fertilize house plants after they have been reported or are in a resting or dormant period. When fertilizing, a weak solution applied at frequent intervals is better than a strong solution used infrequently.

Never use any plant food on your houseplants, either solid or liquid while the soil is dry. Water first and then apply the fertilizer.

Always use lukewarm water when watering. Keep plants moist but never soggy. Water either from the top or bottom. It is best to alternate the method so that you don't get a crusting at the top from accumulation of salts in the soil.

You can't put houseplants on a strict watering schedule. Conditions in the house vary with the season, and plants require different amounts of water depending on the temperature and humidity of the home.

If you are a chronic over-waterer, choose plants which can stand relatively moist conditions such as Chinese evergreen, philodendron, dieffenbachia, palm and dracaena.



Some plants that will not stand being over-watered are cactus, jade, peperomia, pothos and sansevieria.

The health of your houseplants depends on many factors. If the leaves of your houseplants seem smaller than usual, you can check these things as the possible cause. First, is the plant getting enough fertilizer? A too heavy soil mixture can also be the trouble. If the plant is quite old and hasn't been repotted, this might be the problem. Another cause could be not enough moisture. Be sure to give a good soaking rather than frequent light watering.

African violets that don't get enough light fail to flower well and have long leaf stems. Too much sun will cause the leaves to turn a pale green or get spotty.

If you find the foliage of your houseplants dying from the base upwards, you can look for one of four causes. Too little light, improper watering, too high temperature or gas injury. Learn the needs of your plants as to water, temperature and light.

Establish a regular spray schedule to protect against insects and diseases. Get rid of pests before they become critical.



All flowering plants have a rest period, and that is the time when you especially appreciate plants that are grown primarily for their foliage such as the croton, gynura, rhoeo and hypoestes. And if you have bromeliads, you are doubly fortunate, because you will have lovely flowers as well as striking foliage.

Although some houseplants are called foliage plants because their chief beauty lies in their foliage, they all, as a matter of fact, bear flowers. So don't be surprised if your well-grown philodendron sends up calla-like flowers. They do not last long, but will certainly cause great excitement among your friends.

Most houseplants will be much better off for the summer if they are planted in the garden so the surface of the soil is even with the tops of the pots. This eliminates disturbing the roots when they are brought back into the house in the fall.



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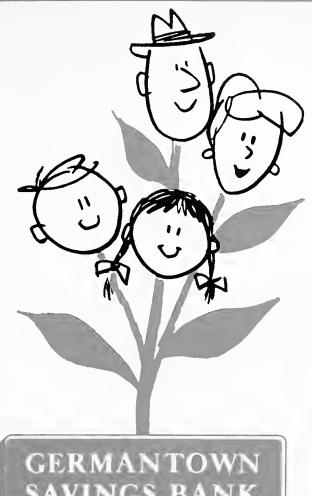
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GARDEN CLUBS IN THE DELAWARE VALLEY

Garden Clubs are growing in membership and activities. We thank the following Clubs in the Greater Philadelphia area, New Jersey and Delaware for their cooperation and support, and take pleasure in listing some of their civic projects.

Allentown Garden Club

Received the Governor's Trophy for Outstanding Achievement and high standards in Garden Club Work. Participate in Garden Therapy, Junior Activities, and maintain an arboretum for Civic Beautification.

Barclay Garden Club

Sponsored a House and Garden Tour. Planning an arboretum at Cherry Hill Library.

Biglerville Garden Club

Beautification of the Biglerville Cemetery, and plantings for the Upper Adams School District.

Bryn Mawr Spade and Trowel Club

Adding planting at Coopertown School.

Chestnut Hill Garden Club

Neighborhood Gardens; Decorations for Pa. Hospital and All Saints' Hospital; Rittenhouse Square Flower Market.

Club of Little Gardens of Malvern

Garden Therapy at Valley Forge Hospital and a garden at Delaware Valley Garden Center.

Community Garden Club at Wayne

Tree plantings for Wayne.

Country Gardeners

Landscaping at Riddle Memorial Hospital and a landscaping plan at Methodist Church of Lima.

Dogwood Garden Club of Princeton

Chrysanthemum Display for Public Library; labeled plants at Herrontown Arboretum; plan landscaping at Bainbridge House, the Princeton Historic Society Headquarters.

Doylestown Nature Club

Community beautification and Blue Bell Trail at Bowman's Hill.

Drexelbrook Garden Club

Garden Therapy at Haverford State Hospital.

The Evergreens

Identification and labeling of trees and shrubs at Chestnut Hill Hospital; assisting Neighborhood Gardens Assn.; Christmas wreaths for St. Christopher's Hospital.

Fairless Hills Garden Club

Sponsorship of trail at Bowman's Hill.

Four Counties Garden Club

Neighborhood Gardens Assn.; Rittenhouse Square Flower Market; active in Pa. Horticultural Society and the Philadelphia Committee of the Garden Club of America.

Four Seasons Garden Club of Kennett Square

Planning, planting and maintenance of large flower bed at Pocopson Home; Flower therapy at Embreeville State Hospital.

Garden Class of Woman's Community Club of Uwchlan

Weekly Garden Therapy program at Valley Forge Hospital; Home and Garden Show: Civic Improvement Program. Garden Club of Bala Cynwyd

Landscaping at Bala-Cynwyd Library; instructing Girl Scouts in Horticulture and flower arrangement; Garden Therapy at Methodist Home; work with Neighborhood Garden Assn.; Rittenhouse Square Flower Market; Red Cross Christmas House Tour.

Garden Club of Drexel Hill

Restoration of 18th Century Garden at Massey House, Broomall and Garden Therapy at Broomal Convalescent Home.

Garden Club of Harrisburg

Establishing a Bird Sanctuary at Harrisburg State Hospital; teaching Junior Gardeners Horticulture.

Garden Club of Lansdowne

World gardening; Neighborhood Gardens Assn. and Garden Walks.

Garden Club of Philadelphia

Neighborhood Garden's Assn.; care of garden at Mt. Pleasant; Bowman's Hill; Christmas wreaths for 2 hospitals; Flower Show at All Saints' Hospital.

Garden Dept. of Lemoyne Civic Club

Annual Flower Show.

Garden Club of Princeton

Planning planting for an island-park in Princeton.

Garden Club of Trenton

Gardens at the Morrow House and the Trent House.

The Gardeners

Bowman's Hill Wild Flower Preserve; Neighborhood Gardens Assn.; Rittenhouse Square Flower Market.

The Gardeners of Newtown Square

Restoration of the Phebe Massey House Herb Garden and beautification of Newtown Square.

Garden Workers

Rittenhouse Square Flower Market; Conservation at Widow's Single Women's Home; Neighborhood Gardens Assn.; work on gardens at Sweet Briar, Strawberry Mansion, and Ludington Library; Christmas decorations for institutions; member Welsh Valley Conservation Council and Pa. Federation of Gardens.

Germantown Garden Club

Harshberger Trail at Bowman's Hill; Neighborhood Gardens.

Hill and Hollow Garden Club

Landscaping at Old Forge School, Lima, Pa.

Huntingdon Valley Garden Club

Bowman's Hill Wild Flower Preserve; Neighborhood Gardens Assn.; Rittenhouse Square Flower Market; Christmas wreaths for Abington Hospital; and Christmas Exhibit at Wanamaker's, Jenkintown.

Junior League Sustaining Members' Garden Club

Christmas greens for Valley Forge and Lankenau Hospital; Neighborhood Gardens Assn.; Rittenhouse Flower Market; entertainment at Bartrams' Garden.

Kennett Square Spade and Trowel Club

Flower Therapy at Embreeville Hospital; transportation of flowers to Valley Forge Hospital; beautification of Kennett Sq.

Lawrenceville Garden Club

Beautification of Lawrenceville; plants and decorations for Retarded Children's Association, Mercer County Unit.

Martha Washington Garden Club

Plantings at Yardley Bridge; instrumental in preserving open space in Yardley-Makefield.

Men's Garden Club of Delaware Valley

Bowman's Hill Wild Flower Preserve and support for Tyler Arboretum.

Mill Creek Valley Garden Club

18th Century Garden at Pa. Horticultural Society; Neighborhood Gardens.

Moorestown Garden Club

Landscaping at Mcorestown High School; maintenance at Stokes' Wood Sanctuary; Scholarship to N.J. School of Conservation.

Norristown Garden Club

Annual Holiday House Tour. Daffodil Show at Plymouth Meeting Mall.

Nottingham Garden, Trenton, N.J.

Seasonal arrangements for Donnelly Memorial Hospital; Christmas decoration for Walson Army Hospital at McGuire Air Force Base.

Old Eagle Garden Club

Christmas decorations for Valley Forge Hospital; Annual May Basket Contest for juniors.

Old York Road Garden Club

Beautification of landscaping at Abington Public Library, and seasonal flower arrangements for interior of Library.

Outdoor Gardeners of Montgomery County

Landscaping at Water Tower Recreation Center; Neighborhood Gardens window boxes where they were a prize winner.

Penn Cumberland Garden Club, Mechanicsburg, Pa.

Garden Therapy weekly with children at Cerebral Palsy Center; landscaping and maintenance at Cerebral Palsy Center; landscaping at West Shore Library and Peace Church in near future.

Penn Valley Garden Club

Garden Therapy at Inglis House and Children's Heart Hospital; Marsh Marigold Trail at Bowman's Hill; planting at Narberth Post Office; award two scholarships for Conservation Education.

Pine Ridge Garden Club

Christmas decorations for U.S. Naval Hospital and Helen Furness Library.

The Planters

Wissahickon Valley Watershed Assn.; Philadelphia Committee of Garden Club of America; Neighborhood Gardens; Rittenhouse Flower Market.

Portland Garden Club

Houdialle Wildlife Sanctuary.

Providence Garden Club of Pennsylvania

Maintenance of Bird Sanctuary and Garden at Wallingford Library which they also decorate for Christmas; helped with planting at Caleb Pusey House; seasonal decorations at Wallingford Station.

Random Garden Club

Christmas decorations at Chestnut Hill Hospital; Geraniums at Gravers Lane Station; established Herb Garden at Hope Lodge; participated in Conservation Fair, Rittenhouse Square Flower Market, and Neighborhood Gardens.

Rose Garden Club

Flower arrangements at Bishop White House in Independence National Historical Park.

Rosemont Garden Club

Christmas decorations for a nursing home; Spring Flower Show participant.

Rose Tree Gardeners

Planting at Child Guidance Clinic; Christmas service projects.

The Seedlings

Landscaping at Race Street Park; flower arrangements for Longwood Gardens Reception Center and Bayard Taylor Library.

Society of Little Gardens of Philadelphia

Rittenhouse Square Market for 53 years; active in Conservation Council of Eastern Pa., Roadside Council, and at Bowman's Hill.

Springfield Garden Club

Garden Therapy; Scholarship contributions.

Spruce Hill Garden Club

Landscaping in their community.

Suburban Garden Club

Plantings at Haverford State Hospital; Neighborhood Gardens.

Tohickon Garden Club

Supports Flower Show.

Town and Country Gardeners

Garden Therapy at Lakeland Hospital; Bulb sale.

Town and Country Club of Coatesville

Christmas decorations for Coatesville Library; Christmas greens for Coatesville Hospital; display at Coatesville Centennial; work with Cub Scouts.

Town and Country Garden Club of Lancaster

Maintenance and planting of grounds at Child Development Center; Christmas decorations at county home.

Valley Garden Club

Cataloging of horticultural books at Downingtown Library; Christmas decorations at Valley Forge Hospital; Neighborhood Gardens.

Villanova Garden Club

Christmas decorations at Valley Forge Hospital and for open house Tour of Wayne Red Cross; May baskets in neighborhood.

Valley Forge Garden Club

Plantings for neglected roadside areas and maintenance of same.

The Weeders

Neighborhood Gardens; Gentian Trail at Bowman's Hill; Phila. Committee of Garden Club of America; Rittenhouse Square Flower Market; Conservation Scholarships.

West Chester Garden Club

Window box project in West Chester; Christmas decorations for every room in Chester County Hospital; some for Wentworth Old Peoples' Home, and Valley Forge Hospital.

Garden Club of Wilmington

Plantings in public park.

Wissahickon Garden Club

Volunteers for 18th Century Garden and Educational exhibits at Pa. Horticultural Society; Conservation Scholarship; Christmas decorations for Valley Forge and Chestnut Hill Hospitals.

Woodland Garden Club

Flower Garden and workshop for patients at Abington Hospital; Christmas decorations for Abington, Jeanes and Valley Forge Hospitals.



PLANT SOCIETIES

Most gardeners enjoy becoming experts in a particular area of horticulture, or in the culture and development of a single genus of plants. These specialists have formed at least 40 national organizations which afford their members access to comprehensive knowledge in a single field of concentration.

Thirty-two national organizations are listed here. 15 have one or more local branches in the Delaware Valley. They meet regularly and welcome new members who share their special interest.

African Violet Society of America, Inc.

Mrs. J. Addison MacLean, Secretary 49 Saunders Road Norwood, Mass. 02062 Membership \$4.00, includes quarterly magazine

African Violet Society of Philadelphia Mrs. Henry K. LaBadie Water Tower Recreation Center Hartwell & Ardleigh Streets Philadelphia, Pa. 19118

African Violet Society of Springfield Mrs. Raymond Schadewald 7 Lexington Avenue Havertown, Pa. 19083

Happy Pastimes African Violet Society of Bucks County Mrs. Sylvia Steinkirchner West Afton Road Yardley, Pa. 19068

Philadelphia Center City African Violet Society Mrs. Moleta M. Barbehenn 7114 Sellers Avenue Upper Darby, Pa. 19082

Gloucester County African Violet Society Mrs. J. Wilmer Zee R.D. #1 Glassboro, New Jersey 08028

African Violet Society of South Jersey Mrs. William Garrett 274 Union Avenue Mantua, New Jersey 08051

Delaware African Violet Society Mrs. Herbert Crossan, Jr. 202 Decalb Avenue Kiamensi Gardens Wilmington, Delaware 19804

North American Fruit Explorers

Robert Kurle 87th and Madison Aves. Hinsdale, III. 20521 Membership \$2.00 per year, includes quarterly bulletin

American Begonia Society, Inc.

Pearl Benell, Membership Secretary 10331 S. Colima Road Whittier, Cal. 90604 Membership \$2.50 per year, includes monthly publication

Elsa Fort Branch Miss Lola Price, Secretary 628 Beach Avenue Laurel Springs, New Jersey 08044

Philobegonia Branch Mrs. Anne W. Stiles, Secretary R.D. #2, Box 43B East Delaware Trail Medford, New Jersey 08055

William Penn Branch Mrs. Robert E. Waite, Secretary 209 N. Locust Lane Exton, Pa. 19341

The American Bonsai Society

Post Office Box 95 Bedford, New York 10506 Membership \$5.00 per year, includes quarterly journal

The Pennsylvania Bonsai Society Ernesta D. Ballard, Secretary 325 Walnut Street Philadelphia, Pa. 19106

The American Boxwood Society

Box 85 Boyce, Virginia 22620 Membership \$2.00 per year, includes quarterly bulletin

The American Camellia Society

Joseph H. Pyron, Executive Secretary Box C Tifton, Georgia 31794 Membership \$6.00 per year, includes Yearbook and five journals

The American Daffodil Society, Inc.

George S. Lee, Jr., Executive Director 89 Chichester Road New Canaan, Connecticut 06840 Membership \$5.00 per year, includes quarterly journal

The American Dahlia Society, Inc.

Mrs. Caroline Meyer 92-21 West Delaware Drive Mystic Islands Tuckerton, New Jersey 68087 Membership \$5.00 per year, includes quarterly bulletin

Greater Philadelphia Dahlia Society Stanley Johnson, President Pennypack, 406 Franklin Avenue Cheltenham, Pa. 19012

American Fern Society

LeRoy K. Henry, Treasurer Division of Plants, Carnegie Museum Pittsburgh, Pa. 15213 Membership \$4.00 per year, includes quarterly journal

The American Gesneria Society

Theodore Bona, Membership Secretary 505 S. 12th Street Reading, Pa. 19602 Membership \$4.00 per year, includes bi-monthly magazine

The American Gloxinia and Gesneriad Society, Inc.

Diantha B. Buell, Secretary Eastford, Conn. 06242 Membership \$4.00 per year, includes bi-monthly magazine

Delaware Valley Chapter Paul Mitchell, President 330 Union Avenue Runnemede, New Jersey 08078

The American Hemerocallis Society

Mrs. Lewis B. Wheeler, Secretary Box 458, Crown Point, Indiana 46307 Membership \$5.00 per year, includes quarterly journal

The American Hibiscus Society

James E. Monroe Post Office Box 98 Eagle Lake, Florida 33839 Membership \$3.00 per year, includes quarterly publication

The American Iris Society

Clifford W. Benson, Executive Secretary 2315 Tower Grove Boulevard St. Louis, Montana 63110 Membership \$5.00 per year, includes quarterly bulletin Delaware Valley Iris Society Norman R. Clouser, President 218 Raymond Street Hyde Park, Reading, Pa. 19605

The American Magnolia Society
D. Todd Gresham, Secretary-Treasurer
103 Frederick Street
Santa Cruz, Cal. 95060
Membership \$2.00 per year, includes
yearly newsletter

The American Orchid Society, Inc.

Botanical Museum of Harvard University Cambridge, Mass. 03138 Membership \$10.00 per year, includes monthly bulletin

The Greater Philadelphia Orchid Soclety Mrs. Eloyse Mailman, President 1560 Hower Road Abington, Pa. 19001

The Southeastern Pennsylvania Orchld Society Melvin Thomson, President 244 Chemounix Circle Wayne, Pa. 19087

American Penstemon Society

Mrs. E. A. Boyrie 614 N. W. Macleay Portland, Oregon 97201 Membership \$2.00, includes annual bulletin

American Peony Society

107½ W. Main Street Van Wert, Ohio 45891 Membership \$5.00 per year, includes quarterly bulletin

The American Primrose Society

Mrs. Lawrence G. Tait, Treasurer 14015 84th Avenue N.E. Bothell, Washington 98011 Membership \$3.50 per year, includes quarterly journal

American Rhododendron Society

Mrs. William Curtis, Executive Secretary Route #2, Box 105 Sherwood, Oregon 97140 Membership \$7.50 per year, includes quarterly bulletin

The Valley Forge Chapter Charles W. Herbert, President Phoenixville, Pa. 19460

Philadelphia Chapter Francis J. Sholomskas, President 1526 Vernon Road Norristown, Pa. 19401

American Rock Garden Society

Richard W. Redfield Box 26 Closter, New Jersey 07624 Membership \$5.00 per year, includes quarterly bulletin

Delawere Valley Section Lee M. Raden, President Chester Springs, Pa. 19425

American Rose Society

4048 Ropelea Place Columbus, Ohio 43214 Membership \$7.50 per year, includes monthly magazine

Delaware County Rose Society John A. Borneman, Jr. 1208 Amosland Road Prospect Park, Pa. 19076

Penn Jersey Rose Society Lewis C. Gross 522 Market Street E. Petterson, New Jersey 07513

Philadelphia Rose Society Stenley S. Atkins Box 173 Jenkintown, Pa. 19046

West Jersey Rose Society Raymond J. Krause 203 Denver Avenue Westmont, New Jersey 08108

Bromeliad Society

Jeanne Woodbury 1811 Edgecliffe Drive Los Angeles, Cal. 90026 Membership \$5.00 per year, includes six bulletins

Delaware Valley Bromeliad Society Patrick Nutt, President Hamorton Kennett Square, Pa. 19348

Cactus and Succulent Society of America, Inc.

Box 167 Reseda, Cal. 91335 Membership \$5.00 per year, includes bi-monthly journal

Philadelphia Cactus & Succulent Society Mrs. Carl Yetter, President 924 Willow Street Southampton, Pa. 18966

The Gourd Society of America, Inc.

Elmwood, Messachusetts Membership \$2.50 a year, includes three bulletins

The Holly Society of America, Inc.

Bluett C. Green, Jr. Box 8445 Baltimore, Maryland 21235 Membership \$3.00 per year, includes newsletter Central Pennsylvania Chapter Dr. Samuel O. Curry Hershey, Pa. 17033

Mt. Holly Chapter Earl H. Robinson, President Medford Nursery Eayrestown, Red Lion Road R.D. #1 Medford, New Jersey 08555

The Indoor Light Gardening Society of America, Inc.

Mrs. Fred D. Peden, Secretary 4 Wildwood Road Greenville, South Carolina 29607 Membership \$4.00 per year, includes bi-monthly bulletin

International Geranium Society

1413 Bluff Drive Santa Berbere, Cel. 93105 Membership \$4.00 per yeer, includes quarterly megazine

National Chrysanthemum Society, Inc.

Mrs. George S. Briggs, Secretary 8504 Laverne Drive Adelphia, Maryland 20783 Membership \$4.00 per year, includes bi-monthly bulletin

Delawere Veiley Chrysenthemum Society Wilbur Beck, President 232 Hoverth Road Media, Pa. 19063

North American Gladiolus Council

H. Edward Frederick 234 South Street South Elgin, Illinois 60177 Membership \$4.00 per year, includes quarterly bulletin

The North American Lily Society, Inc.

Fred Abbey North Fearisburg, Vt. 05473 Membership \$5.00 per year, includes quarterly bulletin & Yearbook

Mid-Atlantic Regional Lily Group Richard W. Lighty, President University of Delaware Newark, Delaware 19711

Saintpaulia International

Post Office Box 10604 Knoxville, Tennessee 37919 Membership \$4.00 per year, includes bi-monthly publication

The Palm Society

Lucita Wait 7229 S.W. 54th Street Miami, Florida 33143 Membership \$10.00 per year, includes quarterly bulletin

HORTICULTURAL SOCIETIES IN THE DELAWARE VALLEY

Membership in these societies is open to all. They hold meetings and shows throughout the year, giving members the opportunity to discuss common interests, share information, exhibit their handiwork and enjoy the exhibits staged by others.

Burholme Horticultural Society

Charles E. Knauf, President 1649 Beech Avenue, Philadelphia, Pa. 19126 Annual dues \$2.00

The Germantown Horticultural Society

Mrs. Henry Stephany Corresponding Secretary 521 E. Conarroe, Philadelphia, Pa. 19128 Annual dues \$3.00

Horticultural Society of South Jersey

Walter Thomas, President 2405 Laurel Drive, Cinnaminson, N.J. 08077 Annual dues \$2.00

The Pennsylvania Horticultural Society

Ernesta D. Ballard, Director 325 Walnut Street, Philadelphia, Pa. 19106 Annual dues \$12.50

Trevose Horticultural Society

Meredith Davis, President 605 Belmont Avenue, Southampton, Pa. 18966 Annual dues \$2.00

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PUBLIC GARDENS IN AND NEAR PHILADELPHIA

Philadelphia enjoys a reputation of being one of the great horticultural centers of the country. It has many fine gardens which are open to the public. Listed herewith is a directory of botanic gardens, arboretums and similar establishments all worth seeing.

AMBLER CAMPUS OF TEMPLE UNIVERSITY

Meetinghouse Road, Ambler, Pa.

Large herbaceous borders, collection of woody plants, wildflowers, (Campus closed in August.)

THE ARTHUR HOYT SCOTT HORTICULTURAL FOUNDATION OF SWARTHMORE COLLEGE

Magnolias, flowering cherries, crabapples, lilacs, hawthornes, Dexter hybrid rhododendrons, daffodils, tree peonies.

HAVERFORD COLLEGE CAMPUS

Lancaster Avenue, Haverford, Pa.

140 different specimens of trees on the 216 acre campus. The planting was begun in 1833 under the direction of William Carvill of England. The 2.5 mile rustic path, the William Woolman Nature Walk, was made possible by funds given by Mr. Woolman, Haverford alumnus. The late Howard Henry of the Haverford Faculty supervised the planting of many of the trees and they are arranged in order of botanical classification. A slip from the original Penn Treaty Elm still grows in front of Founder's Hall.

AZALEA GARDEN, FAIRMOUNT PARK

East River and Aquarium Drives

Four acres containing over 2000 azaleas in addition to many rhododendrons, dogwoods and spring-flowering bulbs.

BARTRAM'S GARDENS

54th and Elmwood Ave. (on the Schuylkill), Phila. America's first botanic garden, established by John Bartram (1699-1777). Original house and barn. Plants and trees of the kind planted by Bartram and his son, William. Admission charge to house, 25¢.

BOWMAN'S HILL WILDFLOWER PRESERVE

Washington Crossing State Park

1,000 species of native Pennsylvania plants, along twelve marked trails. Bird banding station.

DREXEL LODGE

West Chester Pike, Newtown Square, Pa.

Unusually large collection of daffodils in hundreds of varieties.

CHARLES E. ELLIS SCHOOL FOR GIRLS ARBORETUM

Newtown Square

Wide variety of wood ornamentals.

Open to the public by permission in advance.

AWBURY ARBORETUM

Washington Lane, Germantown, Pa.

A place for quiet recreation and nature study.

INDEPENDENCE NATIONAL HISTORICAL PARK Philadelphia

18th Century gardens at 4th and 3rd on Walnut; Magnolia garden at 4th and Locust; Independence Mall.

JAPANESE GARDEN AND HOUSE

Fairmount Park

Lake, rocks, oriental plantings, enclosed by Japanese fencing.

LONGWOOD GARDENS

Kennett Square, Pa.

Extensive formal gardens, rock garden, water lilies, special plant collections, year-round conservatory displays.

THE MORRIS ARBORETUM OF THE UNIVERSITY OF PENNSYLVANIA

Chestnut Hill, Philadelphia

Mature specimens of temperate tree species, evergreens, oaks, hollies, drug plants, fernery, rose garden.

SWISS PINES PARK

Charlestown Road, Valley Forge

Japanese and Polynesian gardens, garden of native ferns and plants; rose, herb and heather gardens. Nominal admission.

TAYLOR MEMORIAL ARBORETUM

Ridley Road, Chester, Pa.

Shrubs and trees suitable for suburban land-scaping; heaths and heathers.

TINICUM WILD LIFE PRESERVE

Philadelphia

Open for nature observation and fishing. Some 235 different species of birds have been recorded from the Preserve and its immediate environs.

JOHN J. TYLER ARBORETUM

Lima, Pa.

Century old specimens of Sequoia gigantea. Cedrus libani, Picea orientalis, and other trees; garden for the blind; "Pink Hill"—a serpentine barren covered with moss phlox in May; azaleas.

WESTTOWN SCHOOL ARBORETUM

Westtown, Pa.

400 species of trees including 175 conifers. (Use West entrance.)

WINTERTHUR

Route 52, Wilmington, Delaware

The Winterthur Gardens of Mr. and Mrs. Henry Francis du Pont cover 40 acres. Naturalized plantings of spring flowers and shrubs. Azaleas —over 330 species and varieties. Open April through June.

MIDGET ROSES

by Patricia Spollen, Garden Editor of The Evening Bulletin

Midget roses looked like novelties, cute stunts but not plants to bet on for long garden life, when they first appeared on the market about 35 years ago. Roses no bigger than a thumbnail on six-inch-high plants had charm, were nice on a windowsill, and seemed "naturals" as small living gifts for ladies, little girls and hospital patients.

But these "novelties" have now been around all these years. Even the rugged male rose growers who first looked at them with a certain contempt have been at least somewhat won over. Fill a windowbox with midget roses for the summer, or have a few in containers on a terrace table, and almost everyone will admire them.





Midget roses turn out to be less fragile than they look. Some varieties are not so "midget" either, with blossoms an inch or more wide. Lovers of minature roses still plunk for the thumbnail size bloom, though.

Like any rose, midgets do best in sun. If you get one already planted in a flower pot, why not keep it that way? You can slip pot and all into a windowbox, or into the open ground.

Roots won't need more room for one summer than they have in the pot. Meanwhile the clay walls help to trap any water you give to the plant. Root-binding also tends to increase blossom production.

Put a handful of peatmoss over the soil surface, to hold more moisture, and water at weekly intervals through the summer. Those shallow roots can dry out quickly in warm weather.

In August, give minatures a liquid feeding, to boost them for a September round of bloom. Mix a half cupful of commercial fertilizer, or any good general fertilizer, in a quart of water. Use about a pint for each watering, stirring it up each time, and repeating at about three-week intervals.

September's bloom on miniature roses, as on any roses, can be the best and most colorful of the whole outdoor season if plants are in good condition and well fed.

As a precaution, water with plain water before applying the August feed if that month turns out to be very dry and hot. And stop feeding in October, so plants can harden up.

What to do with midgets over winter? Safest thing is to let leaves fall and then cover whole plants, tops and all, with soil. If you don't like the looks of humps of earth in a windowbox all winter, take the box down



and stand it on the ground or lift the potted rose out, sink it up to its rim in a sheltered garden corner, and heap soil up. The soil mound should be taken away the following April.

Also, it ought to come out of the container and be planted in the open ground its second spring. By that time, roots will want the extra root room.

You can also carry midget roses over winter in the house. They've begun to go the way of African violets as far as house plant use is concerned.

Though the nursery that introduced them never intended miniature roses to be house plants and took a dim view of attempts to grow them that way, and though experienced rose hobbyists weren't very hopeful of success either, a few amateur gardeners who tried them found that they would bloom.

Now midget roses blossom on many a winter windowsill. It's not easy to keep them in good condition in the house; they prefer a temperature of about 65

degrees and grow limp and pale in warm rooms.

But if you have a sunny but not too warm window in winter, you can move them from the garden in early October and keep them blooming at least through December. They're not likely to flower much in January or February, but they'll begin to brighten up and bloom again in March.

This is strenuous, for a small rose plant. Without the dormant period they naturally have outdoors, midget roses raised on a summer-outdoors and winter-indoors schedule tend to burn themselves out in four or five years. But you've had your fun, if you have them blooming in and out and off and on around the calendar for that long.

How to keep a midget that you buy in March flourishing until weather is warm enough for it to go outdoors in April? Invert a glass jar over it, or put it in a glass case, or keep it in an unheated or cool room.

NURSERY AND COMMERCIAL GREENHOUSE EXHIBITORS

County Line Landscape Nursery Harleysville, Pa. Glen Spa Gardens Glen Mills, Pa. Hansen Brothers Nurseries, Inc. King of Prussia, Pa. Hansen Ground Covers Narberth, Pa. Judd's Hollylan Nurseries Pitman, N.J. Medford Nursery, Inc. Medford, N.J. Oaklyn Nurseries Green Lane, Pa. Rose Valley Nurseries Media, Pa. Snipes Farm & Nursery Morrisville, Pa. Star Roses West Grove, Pa. J. Franklin Stver Nurseries, Inc. Concordville, Pa. Vick's Wildgardens, Inc. Gladwyne, Pa. Whitemarsh Maintenance Corp. Plymouth Meeting, Pa. Whitemarsh Nursery Plymouth Meeting, Pa.

PLANT SOCIETY EXHIBITS

African Violet Society of Philadelphia
Wm. Penn Branch, American Begonia Society
Delaware Valley Chapter, American Gloxinia Society
Philadelphia Chapter, American Rhododendron Society
Middle Atlantic Regional Lily Group
American Rock Garden Society, Delaware Valley Region
Delaware Valley Bromeliad Group
Delaware Valley Chrysanthemum Society, Inc.
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in cooperation with Pennsylvania Highway Dept.
S.P.C.A. of Pennsylvania
U.S.D.A. Agricultural Research Service
U.S.D.A. Soil Conservation Service
Miniature Rooms

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PROPAGATION OF ORNAMENTALS Delaware Valley College of Science and Agriculture

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Medford Nurseries, Duro-Test Corporation, Vernon Johnston, Co-ordinator

PALMS FROM THE FAIRCHILD TROPICAL GARDEN

Judges Council, Philadelphia Area Garden Club Federation of Pennsylvania

MICROCLIMATES ON HOME PROPERTY Mrs. F. Otto Haas and Mrs. John J. Willaman

-HERBS IN DECORATIVE POTS AND CONTAINERS The Philadelphia Unit of The Herb Society of America

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CONTEMPORARY MARY GARDEN Mary's Gardens

RESULTS OF CORRECT AND INCORRECT PRUNING Pennsylvania Nurserymen's Association

EDUCATION IN AGRICULTURE Walter Biddle Saul High School of Agriculture and Horticulture

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Temple University, Ambler Campus
Department of Horticulture and Landscape Design

WHERE UNDER THE SUN? The Philadelphia Committee of The Garden Club of America

STEPS IN BUILDING A LAWN The Pennsylvania State University

GARDEN CLUB COMPETITIVE EXHIBITS

ROOMS—Class 501

Four Counties Garden Club Mrs. George Reath, Chr. Germantown Garden Club Mrs. William S. Einweckter, Chr. Huntingdon Valley Garden Club Mrs. John C. Miller, Chr. Spruce Hill Garden Club Mrs. Francis M. Day, Chr.

TABLES—Class 502

The Evergreens
Mrs. James Perot, Chr.
Four Counties Garden Club
Mrs. John A. Shober, Chr.
Providence Garden Club of Pennsylvania
Mrs. William Ward, IV, Chr.
Rosemont Garden Club
Mrs. Harold Boardman, Chr.
Spade and Trowel Garden Club
Mrs. Merwin R. Jackson, Chr.

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Chestnut Hill Garden Club Mrs. Arthur S. Roberts, Chr. Delaware Valley Chapter, Men's Garden Club of America Mr. Calvin E. Jacobs, Chr. Town and Country Gardeners of Audubon Mrs. John Dick, Chr.







MANY THINGS TO MANY PEOPLE ...

The Pennsylvania Horticultural Society—oldest society of its type in the country—is, indeed, a many-faceted organization which serves the horticultural interests of its more than 5000 members and the general public, in a wide variety of ways. On these two pages, you can see just a few of the reasons why the Society is truly "many things to many people." To some, it is . . .

... a lecture on the ancient Japanese art of Bonzai.

... a visit to our 18th Century Garden on Walnut Street just west of our headquarters. In the summer, it is not unusual to have a thousand visitors in a single day!





... a search for special information about a favorite horticultural subject in the Society's Library which contains nearly 10,000 books as well as a large collection of horticultural periodicals. The public is welcome!

...a warm welcome from the 13-member staff who work in our headquarters at 325 Walnut Street in the heart of Independence National Historical Park. ...a "tour of duty" devoted to making certain that flowers and plants thrive in areas where, not too long ago, there were no flowers at all.



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Camden, N.J.

30

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Toms River, N.J.

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WHERE UNDER THE SUN

by Marion K. Appel and Lalite P. Lewis

Where under the sun did the plants we grow originate? Some, of course, are indigenous to this area. Others came in unexpected ways from faraway parts of the world.



Tulips

Long before Holland ever saw a tulip this plant was under cultivation in Turkey. The name "tulip" stems from a Turkish word meaning turban. The first tulips grown in Europe were brought to Vienna in 1554 by Busbequius, the Austrian ambassador to the court of the Sultan of Turkey. At that time the herbalist Clusius was head gardener to Maximilian II in Vienna. When he later became a professor at the University of Leiden in Holland, he introduced the tulip in that country, where the production of new varieties became a craze. In one curious transaction a single bulb was traded for the following items: 2 lasts of wheat, 2 lasts of rye, 12 fat sheep, 2 hogsheads of wine, 1 complete bed, 1 suit of clothes, 4 fat oxen, 8 fat swine, 4 tuns of beer, 2 tuns of butter, 1 silver drinking horn, and 1000 lbs. of cheese.

Roses

When Eve was banished from the Garden of Eden she was granted permission to take one flower with her. She chose a white rose. It is thought that our modern roses are descended from a native of the Caucasus Mountains or from one of the many species of the Near East. The rose has been the emblem of silence ever since the Persian King Xerxes was defeated by the Greeks in 479 B.C. The Greeks were believed to have planned this battle secretly in a bower of roses, and afterwards the rose was to be seen in carvings above places in which people met to transact matters that were confidential, hence, "sub-rosa."

Narcissus

The narcissus is native to central Europe, the Mediterranean region and eastward into Asia. It is among the oldest of all cultivated plants. The name narcissus is derived from the myth of the youth Narcissus, who was doomed to admire his own beauty reflected in a pond until Nemesis took pity and changed him into a flower. When nymphs came to bury him, they found white flowers with colored centers growing on the spot where he had been. Thence forward—the narcissus was associated with ancient rites of death and burial.

Azaleas

Azaleas come in many species and hundreds of varieties and hybrids. The wild species are concentrated in Eastern North America and Eastern Asia. Two other species only have been discovered, one in the Caucasus area, the other in the Pacific States of Oregon and California.

Though Japan was closed to Western trade from 1624 to 1853, Japanese azalea plants were brought to China by her buddhist missionary monks during these years and reached England on ships of the East India Company. Similarly, the Dutch East India Company brought Japanese azaleas to Holland by way of their trading post in Batavia, Java. Species from China came to Western Europe in the early 1800's.

Chrysanthemums

The name chrysanthemum comes from the Greek, meaning "Golden Flower." Some species have been in cultivation for over 3,000 years in China and Japan.

Not a gardener, but a Chinese poet, T'ao Ming' Yang, living in the first century A.D. was the greatest developer of improved chrysanthemum varieties. As sacred flowers and royal symbols chrysanthemums adorned temples and palaces; as popular ornaments they were used as decorative elements on porcelain, in rugs, brocades and metalwork. Growing the flowers is still a national pastime in the Far East.

It is probable that Dutch traders brought the chrysanthemum to Western Europe in the late 17th century. They soon reached the American colonies, where they were grown in greenhouses even before the Revolution. The plants were first noted for public exhibition by the Pennsylvania Horticultural Society in 1827.

Flowering Cherries

Flowering cherries were introduced to Japan by Chinese Buddhist missionaries about the 6th century A.D. The great Japanese poet, Moto-ori, wrote, "If one should ask you, what is the spirit of the Japanese, point to the wild cherry blossom shining in the sun."

In 1826, von Siebold, a Bavarian, attached himself to a Dutch delegation making an official visit to the Shogun of Japan. He managed to stay on in the capital to gather material for a monumental work describing the country and its culture. In 1830 he returned to Europe, bringing with him a number of valuable ornamental plants, including at least two flowering cherry trees. Specimens eventually found their way to America.

Gloxinia and Streptocarpus

The gloxinia was named for P. B. Gloxis of Strassburg, who wrote a treatise on the entire Gesneriad family in 1785. This was the same year that a Frenchman, L'Heritier, found the gloxinia in Brazil. When the plant was first introduced into cultivation, its flowers were all nodding, or hanging down. Continued breeding has produced the modern plant, with upright flowers.

Streptocarpus, another member of the Gesneriad family is commonly known as the Cape Primrose. It was found in South Africa by James Bowie, who brought it to Kew in England. It flowered there for the first time in 1823.

Palms

Palms are widely spread over the warm regions of the earth, being most abundant in America, Asia and the Pacific Islands. The palm tree of the Bible is undoubtedly the date palm, *Phoenix dactylifera*, which is found in large numbers throughout Syria. It provides food, not only for man, but for his horses or camels as well. On the other hand, the sharp spines of certain palms are used for poisoned arrows by some



South American tribes, and the blow-pipe used to project these missiles is formed from the hollow stem of another type of palm. The seeds of the Areca Catechee palm, after preparation, become the betel nut, much used in the East Indies as a mild stimulant.

Many of the plants mentioned above can be seen at The Flower Show in an educational exhibit planned and staged by members of the Philadelphia Committee of The Garden Club of America. This exhibit is designed to show the origins of plants from three geographical regions; the Orient, the Mediterranean and the Tropics.



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From the Extension Office you can obtain information on flower and vegetable gardening; your lawn; soil testing, liming and fertilizing; insect and disease identification and control; home fruit management; planting and care of shrubs and trees, safe use of pesticides and many other subjects. Copies of all Penn State publications (bulletins, leaflets and mimeographs) are available free for the asking.

The County Agent is an expert with technical training and experience in the conditions and problems of the Delaware Valley. His job is to answer your questions and give you helpful advice. When he is stumped, he can call upon a corps of specialists at the Pennsylvania State University.

If you want to delve deeper into a subject, but don't want to go back to school, a Correspondence Course might be the answer. Since 1892 Penn State has been a pioneer in this field, and at the present time it offers 71 correspondence courses in Agriculture and 17 correspondence courses in Home Economics. A partial listing includes Home Lawns, Principles of Insect Control, Propagation of Plants, Home Floriculture, Rhododendrons and Azaleas and House Plants.

4-H Club work for young people ages 9-19 is also part of the Cooperative Extension Program. There may already be a club in your community. You can find out by calling the Extension Office. To start a 4-H Club you should have 10 or more members, (boys, girls or both) and a volunteer adult leader. Club members choose their own project and decide how often to meet and where meetings will be held. A partial list of projects in gardening includes: Annuals, Annuals and Perennials, Growing Cut Flowers, Lawn Management, Strawberries, Vegetable Gardening, Landscaping and Indoor Gardening.

Each County Agent holds meetings for homeowners on subjects of interest to the amateur gardener. In addition, since 1961, the Agents in Bucks, Delaware, Chester, Montgomery and Philadelphia Counties have conducted meetings for nurserymen, greenhouse operators, garden supply dealers, landscape contractors, tree surgeons and building and grounds superintendents.

Your County Agent is as close as your telephone. Or you can stop at the Penn State Extension Service booth at the Spring Flower Show and get acquainted. Below is a listing of the addresses and telephone numbers of the Agents in five Southeastern Pennsylvania Counties.

COUNTY	ADDRESS	TELEPHONE
Bucks	Administration Building Broad and Court St Doylestown, Pa. 189	
Chester	Courthouse West Chester, Penna. 19380	696-3500
Delaware	Toal Building Media, Penna. 1906	LO 6-0142
Montgomery	400 Markley Street Norristown, Pa. 194	
Philadelphia	S.E. Cor. Broad & Grange Sts. Philadelphia, Penn 19141	a. HA 4-0650-51

THE NEW JERSEY CO-OPERATIVE EXTENSION SERVICE

Operating in the same capacity, the Cooperative Extension Service at the College of Agriculture and Environmental Science, Rutgers, the State University in New Brunswick, New Jersey offers similar opportunities to New Jersey residents.

Agricultural Agents, Home Economists and 4-H Youth Agents have offices in each of the counties in the Delaware Valley area.

For more information, New Jersey residents can contact the offices located in their respective counties:

COUNTY	ADDRESS	TELEPHONE
Burlington	County Office Bldg. 49 Rancocas Road Mt. Holly, N.J. 0806	609-267-3300 0
Camden	County Extension Service Building 152 Ohio Avenue Clementon, N.J. 080	609-784-1001
Gloucester	County Office Bldg. N. Delsea Drive Clayton, N.J. 08312	609-881-1200
Mercer	Court House Trenton, N.J. 08607	201-396-4593
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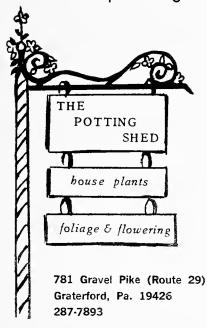
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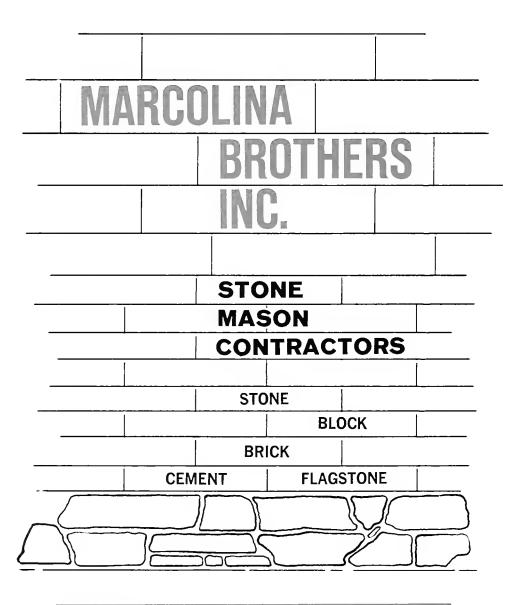
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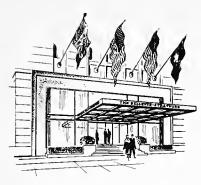
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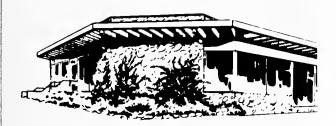
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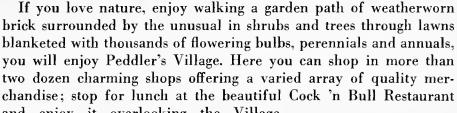
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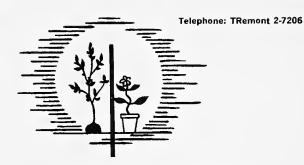
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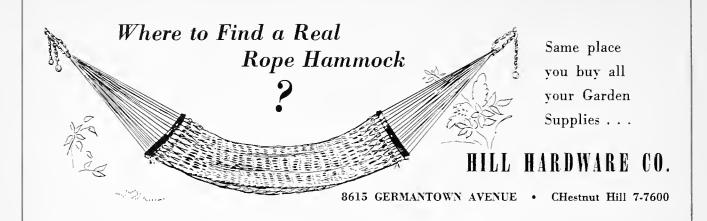


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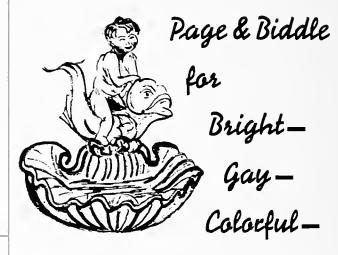
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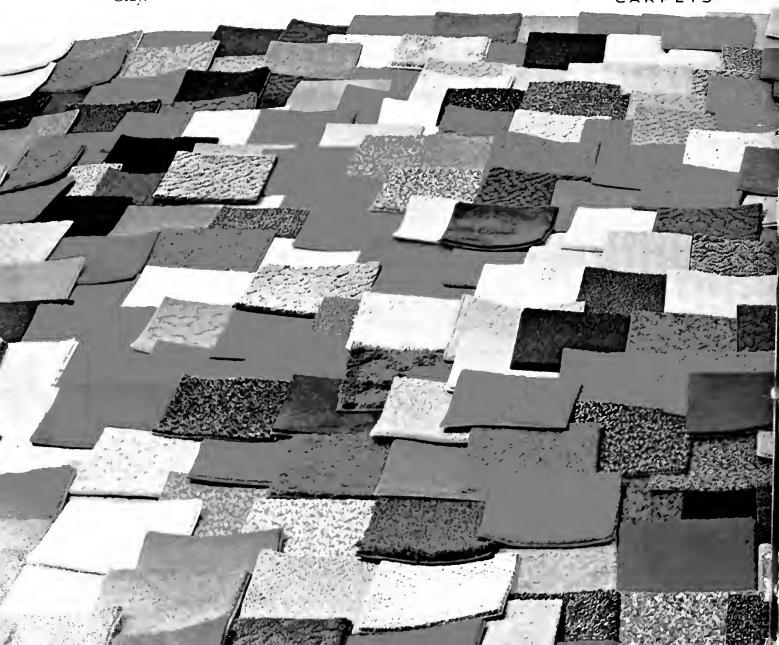
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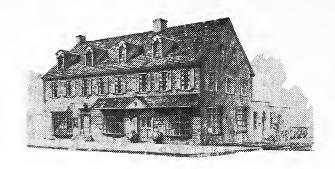
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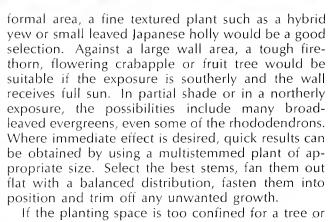
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Ernesta D. Ballard, Director, PHS James P. McCarvill, Show Manager F. Evelyn Hett, Show Secretary Frances E. Godshalk, Administrative Assistant Bertha M. Bonner, Floor Manager June M. Vail, Horticulturist The ancient Italian art of espalier can easily be adapted to the need of the modern homeowner for a striking and attractive garden feature. Trimming and fastening an appropriate plant to fit a restricted area is not difficult and can be a satisfying project.

Since you will invest more of your own time in an espaliered plant than in most others, it is important to provide good growing conditions so that your espalier will respond to your care. Directions for preparing the planting hole will be found in many horticultural texts available from the PHS library.

Choosing the right kind of plant is important. For a small



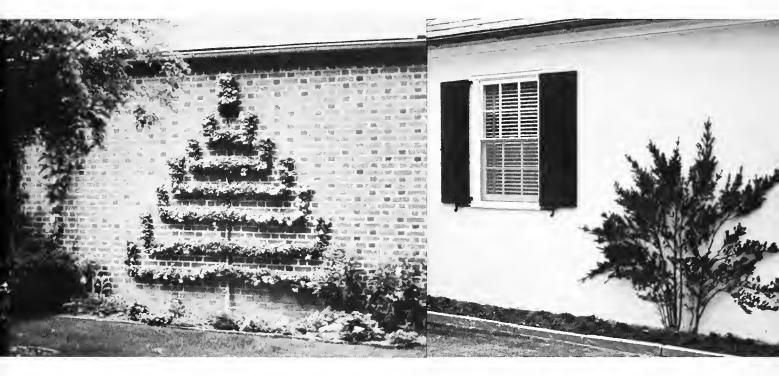


If the planting space is too confined for a tree or a shrub, a vine can be trained to grow in an attractive pattern and will cover a surprisingly large wall area. If you have no planting space at all, there is usually enough room for an espalier grown in a pot.

Not only should the espalier be suited to the size of the wall, the exposure, and the planting space, it should also provide visual interest in all seasons of the year, spring flowers, summer foliage, berries or decorative seedpods in the fall, attractive bark or buds in winter, or evergreen foliage. It is not



by L. B. Palmer



always possible to find all these things in one plant, but don't settle for less than at least two.

When you have selected the right plant for your espalier, give a moment's thought to the size. Smaller plants are less expensive and somewhat easier to shape, but most Americans move so often that they cannot wait for results. Generally the best course is to buy as large a specimen as can be planted comfortably in your space and then to prune it heavily to the desired shape and size.

At this point, a word about fasteners is in order. If the espalier backs against a fence, fastening is easy. Simply tie the limbs to the fence rails or posts with heavy twine or plastic tape. (Don't use wire unless you are the conscientious kind of person who will check each year to be sure it does not cut the bark.) If the espalier backs against a frame house, you will have to install fasteners in the wall to tie the limbs to. Brass screws or screw eyes are the best; galvanized screws or screweyes are acceptable. Steel nails are not satisfactory. They rust out, stain the wall, and often split the wood. A masonry background presents the greatest challenge. However,

the rules are simple: make your masonry fasteners firm, and make them stainless. Nothing is more discouraging than to have the fasteners pull out of the wall just after the tree is shaped. And nothing looks worse than rusty stains below the fasteners. One satisfactory method is to drill the wall with a masonry bit, insert lead or plastic anchors, and screw brass or galvanized screws or screweyes into them. It takes a little extra time, but the results are well worth the trouble.

The truly forehanded gardener keeps several different kinds of plants in training as reserve espaliers in case the original dies, or just to provide a change of scenery from time to time.

Shapes and patterns are beyond the scope of this article, but detailed directions are available in gardening texts found in the PHS library. Those who find the traditional styles too formal will enjoy experimenting with free form compositions of their own. The different effects that can be obtained by varying the length and angles of the main branches, the distance between smaller branches and the development of twigs on each branch are limitless.



Dicentra cucularia

photos: Bowman's Hill Wildflower Preserve





Hepatica americana

Don't forget wildflowers when you are planning your garden. They are beautiful; they are hardy, and there is a great satisfaction in growing and thus preserving the plants that have evolved in the Delaware Valley.

Highways, airports, shopping centers, developments and people have disturbed and destroyed too many and all gardeners want to bring back the plants that were here before the white man came.

The following thoughts may be interesting and helpful for those who contemplate growing some.

Site Selection: Wildflowers look best against a strong background. In small properties, this can be formed of tall evergreens and deciduous plants such as rhododendrons, laurel, azaleas, huckleberries and viburnum. If space warrants, hemlock, pine, Douglasfir, spruce, dogwood, magnolia, Judas tree, shadbush or fringe tree may be used.

Another important consideration is the availability of water. Wildflowers take some time to become fully established, and it is advisable to water them once or twice a week during the first year after planting. A natural stream provides the best possible setting. Failing this, an artificial one can be created and, with the water, an attractive place for birds is assured.

Soil Preparation: Dig up the site, six to eight inches deep. If the soil is contaminated with chemicals, oil, building lime, or other refuse, remove it completely and substitute new top soil. Whether you use the native soil or new top soil, add one third





Gentiana andrewsii

Trillium grandiflorum

humus or leaf mold and one third rotted or dried manure before replacing it in the area to be planted. If the soil has a high proportion of clay, put a four inch layer of crushed stone or similar substance below the planting mixture to provide drainage. If the clay is very heavy, add sand to the mixture when adding the humus.

Selection of Plants:

1—For The Shade—Alum root, Rue Anemone, Baneberry, Bellwort, Bloodroot, Dutchmen's Breeches, Cohosh, Wild Geranium, Wild Ginger, Hepatica, Herb Robert, Jack-in-the-Pulpit, Philadelphia Lily, Turk's Cap Lily, Mayapple, Partridge Berry, Rattlesnake Plantain, Shooting Star, Black Snakeroot, Solomon's Seal, Spring Beauty, Trilliums, Violets, Spotted Wintergreen, and Spicy Wintergreen.

2—For The Sun—New England Aster, Wild Bleeding Heart, Butterfly weed, Wild Clematis, Columbine, Foam Flower, Iris Cristata, Jacobs Ladder, Joe Pye Weed, Canada Lily, Meadow Rue, Blue Phlox, Quaker Lady, Spiderwort, Trumpet Vine.

3—For Moist and Wet Areas—Arrowhead, Bergamot, Blue Flag, Forget-me-not, Blind Gentian, Blue Lobelia, Red Lobelia, Marsh Marigold, Mertensia, Pitcher plant, Skunk cabbage and Turtlehead.

Planting: Wildflowers look better and reproduce better if they are planted in groups. Isolated specimens are not usually seen in nature. The best effects are produced by arranging them in large clumps or "drifts"; in any event there should never be less than three in a group. The drifts can flow into one another; or they can be separated by rocks, logs, stumps, or ferns. A wandering path can serve as a boundary and at the same time provide a way in and out of the garden.

Maintenance: Unless the site is ideally suited to wildflowers and nothing else, a wildflower garden will become overrun with grass and weeds. These must be pulled up to permit the wildflowers to grow. Under normal conditions, a wildflower planting will need weeding two or three times during the growing season. The process will be easier if the planting is mulched with pine bark, cocoa hulls, rotted wood chips, pine needles, or some other dark-hued substance that will not detract from the plant's appearance.

Accessories: If the wildflower garden is a success, there are at least two accessories that will enhance your enjoyment of it. One is a place to sit and study the flowers and the other is a system of lights so you can see them in the evening.

by Albert F. W. Vick, Jr.



THE GARDEN YEAR OF WHAT TO DO WHEN

MARCH

This is the month when the temperature can rise or fall thirty degrees in one day. Be prepared for heavy snow or a pleasant, outdoor picnic. Wake up from winter at the Spring Flower Show. Enjoy the little bulbs in your Winter Garden—snowdrops, winter aconite, winter iris, crocus and early daffodils. Forsythia and Norway maples will bloom in the suburbs, red maples and skunk cabbage in the country. Pansy plants will arrive at the Garden Centers. The Garden Year is beginning—have Fun!

SOIL TESTS. Whether it is your lawn or your vegetable garden, have soil tests made now—and avoid rushing in with too much of the wrong kind of fertilizer.

LAWNS. If you did not get grass seed sown last fall, this is the next-best time to do it—as soon as the soil is crumbly enough to work with. Or get sod for an "Instant Lawn." If the acidity test on your lawn soil comes out below pH 6, you need lime—and 75 lbs. of ground limestone per 1,000 sq. ft. is safe to start with. Plan to give your lawn, this spring, either one heavy feeding with a slow-release, non-burning Ureaform type or small applications at six-week intervals of an inorganic fertilizer such 12-8-4—and do follow directions on the package.

FLOWER GARDENS. Take off the winter-covering before your bulbs poke through, so you will not bruise them. And reset any plants which have heaved out over winter. When the soil is warm and dry enough to crumble in your hand, it can be forked. With cool weather and spring rains to follow, this is a good time to transplant small bulbs such as winter aconite. And now is the time to weed and trim rock walls.

WINDOW BOXES AND PLANT TUBS. By the end of the month, these can be filled with pansies. A light snow will not hurt them.

ROSE GARDEN. Rake away the manure or soil hills protecting your bushes.

VEGETABLE GARDEN. This can be forked or plowed as soon as the soil is crumbly. Peas like cool weather, and should be seeded as soon as possible.

TREES AND SHRUBS. The planting season begins. Feed shade and fruit trees under the branch tips. Prune summer-flowering shrubs which bloom on new wood of the current season—abelia, rose-of-Sharon, buddleia, hydrangea. Prune raspberries and grapes. Destroy tent caterpillar nests while the larvae are young.

INDOOR GARDENING. Sow seeds of Jerusalem Cherry for Christmas bloom. Towards the end of the month, sow seeds of tomato, pepper and eggplant.

APRIL

Snow can come and temporarily flatten your daffodils, but it will not last. It could even be a dry

month! Rock walls will explode with creeping phlox, alyssum and candytuft. Forsythia, magnolias and cherries brighten the suburbs. Country children can now pick bloodroot and Jack-in-the-pulpit.

LAWNS. Mowing and trimming begin now and must continue for the rest of the season. The easiest way to grow grass instead of weeds is to set your mower blades high and mow twice a week or at least every five days. If you have more lawn than you need, replace it with a ground-cover of periwinkle, pachysandra, ivy, etc.

FLOWER GARDENS. Begin the weekly maintenance job of deadheading, weeding, cultivating and edging for the rest of the season. Transplant biennials from the coldframe to the flower border—pansies, forgetme-nots, English daisies, foxgloves, Canterbury bells and wallflowers. Divide summer and fall-blooming perennials such as chrysanthemums, asters, phlox and veronicas; and plant the surplus in the cutting garden. Bulbs forced for winter bloom can be planted outside now. An asparagus knife is good for digging garlic.

ROSE GARDEN. Prune bush roses. Remove dead wood and weak growth, and head vigorous shoots back to an outside bud. Watch for diseases and be prepared to spray.

VEGETABLE GARDEN. Sow seeds of beets, carrots, spinach, parsley, turnips, lettuce, radish and Swiss chard. And set out onion sets and plants of cabbage, broccoli, cauliflower and Brussels sprouts. These can stand a light frost. Peas should be coming up. Start picking rhubarb. Start an asparagus patch. Set out strawberry plants. Protect against rabbits with a secure fence or cats and dogs.

TREES AND SHRUBS. Finish transplanting. Prune Forsythia as soon as flowering is over. If you wait to prune it later on, there is real danger of cutting off the next season's flower buds. Trim ivy on walls.

INDOOR GARDENING. Bring poinsettias up from the cellar, cut back, repot in good soil, water and give full sun.

PROPAGATION. Plant seeds of hardy perennials, trees and shrubs in an outdoor seed-bed or cold-frame.

NEW PLANTS. Watch the Garden Centers for trees, shrubs and perennials in containers. They are so very handy, for you do not have to plant them immediately. But buy these early in the season before they starve from outgrowing their containers. For the more unusual things, check with the nurseries for field-grown plants.

MAY

Frost danger in the Philadelphia area should be over by May 15th. There are tulips and blue phlox in the herbaceous borders—dogwood and azaleas everywhere. Wildflowers in profusion—and lilac-time!

LAWNS. Cut and trim, cut and trim. Whenever

spring bulbs have been planted in lawn areas, leave the grass untouched so bulb leaves can mature. Use one of the 2,4-D herbicides to control broad-leaved weeds but remember that harmful residues could accumulate—with excessive use. A small boy with a penknife can be an excellent weeder.

FLOWER GARDENS. Staking needed now for taller plants. After frost danger is over, sow seeds of zinnias, dahlias, marigolds and other tender annuals. Also, plant tender bulbs-gladiolus, dahlia, etc. Pinch chrysanthemums to promote branching from lower buds and produce bushy plants. Let daffodil leaves die down naturally. Cutting, tieing or braiding this foliage deprives the bulbs of their full food supply and decreases next year's bloom. Sow seeds of foxglove and Canterbury bells in pots, seedbed, or coldframe.

VEGETABLE GARDEN. After frost danger is over, set out plants of tomato, pepper and eggplant. Thin early vegetables and make succession plantings of carrots, beets, spinach, lettuce and radish. Sow seed of string beans, sweet corn, lima beans. Start mulching between rows to maintain even soil moisture and temperature. It takes 3-4 inches of mulch to deter weeds.

TREES AND SHRUBS. Privet hedges must be sheared. If you wish to prune spring-flowering shrubs, do it as soon as possible after flowering. Prune wisteria after flowering by cutting shoots back to 3-5 buds. If your female holly does not set berries, beg a bucket of male-flowered branches to hang high in vour tree.

INDOOR GARDENING. After all danger of frost is over, house plants can be put outside for the summer. The pots can be set on a terrace or sunk in the ground. Even sun-loving geraniums should be moved gradually from the half-light of indoors to the full sun of outdoors. Ferns and begonias will need some shade all summer.



JUNE

This, of course, is the month of roses and garden peas. There are iris, peonies, lilies and delphinium in the garden, grass pinks in the rock wall, and field daisies along the roadsides. There could be thunderstorms and a good opportunity to check on soil and water erosion. If you have puddles, correct the drainage. If soil is washing away, add protective plant cover.

LAWNS. Arsenical herbicides can be used against crabgrass-but follow directions very carefully and remember that excessive applications could cause an accumulation of harmful residues.

FLOWER GARDENS. Foxgloves and delphinium will need staking now. It is when the flowers open that they become heavy with rain water and need support. Time to lay down summer mulches, to keep the ground cooler and more moist. As bulb foliage dies down, summer annuals can be planted between the bulbs. Weed and trim rock walls. Sow marigold and zinnia seeds between the rows of spring bulbs in the cutting garden. Pinch chrysanthemums.

WINDOW BOXES AND PLANT TUBS. Replace pansies with geraniums, petunias, trailing vinca, nasturtium, marigolds, ageratum, sweet alyssum, etc.

VEGETABLE GARDEN. Stop cutting asparagus and start picking strawberries. Sow seeds of squash, pumpkin, melons.

ROSE GARDEN. You can still buy potted roses, if you prefer seeing your purchases in bloom. Disbud, deadhead and spray regularly from now on. Watch for mildew in humid weather and blackspot in wet weather.

TREES AND SHRUBS. Shear narrow-leaved evergreens to thicken, cutting off one-half the new growth. Prune spring-flowering shrubs as they finish flowering. Deadhead lilacs and rhododendrons if you have time.

INDOOR GARDENING. Check houseplant trays for leaks and repainting. Clean out greenhouse and conservatory—repair, fumigate and paint. Take cuttings of poinsettia.



JULY

This is usually the DRY month, when planting is nil, even the weeds slow down, and you can sit back and admire your flowering annuals. Hosta fills the shady nooks, and phlox, daylilies, bergamot, coreopsis and rudbeckia carry the perennial border. The rock wall is subdued to sedums and thymes, and a quiet herb garden has fragrant charm. The roadsides are gay with blue chicory and Queen Anne's laceboth immigrants from Europe. Sweet corn is ready

LAWNS. If the season is hot and dry, mowing need not be done so often. Lawn areas planted to bulbs can now be cut.

FLOWER GARDENS. Last chance to sow seeds of zinnias and marigolds for autumn bloom. After daffodil foliage has died down, the bulbs can be dug, divided and replanted. Pinch chrysanthemums. As the biennials finish blooming, pull out and replace with chrysanthemums. Divide iris. If you are going away, cut back your petunias hard, early in the month and they will bush out by fall. If you want summer bloom from them, cut back a bit at a time.

VEGETABLE GARDEN. Start seed for fall cabbage, cauliflower, broccoli and Brussels sprouts. Set out celery plants.

ROSE GARDEN. Prune climbers and ramblers.

INDOOR GARDENING. Fill greenhouse benches with fresh soil, and bench carnations. Dry off amaryllis. Sow snapdragon seed for cut flowers and browallia seed for winter pot plants towards the end of the month.



It could get cooler and there could be more rain. If you have not mulched heavily, you will have to weed. Annuals are the garden mainstay. Cut thistles to the ground before they flower and set seed.

LAWNS. Late August is the ideal time to sow grass seed in this area. Mix some peat or compost and 20 lbs. 5-10-5 fertilizer thoroughly into the top six inches of your seedbed, and rake smooth. Then, sow an appropriate seed mixture and on slopes cover lightly with a mulch of straw, hay or commercial netting. New seedings should be sprinkled as gently as possible to aid germination without washing. Once the new grass is up, do not mow until it is 3 inches high.

FLOWER GARDENS. Plant bulbs of colchium, sternbergia and autumn crocus. Sow seeds of cornflower and larkspur in cutting garden for next year's bloom. Sow seeds of pansy, forget-me-not and English Daisy in seedbed or frame, early in month. Order lily bulbs.

PLANT TUBS. Transplant cleome, blue sage and dwarf dahlias to tubs, shade for a few days, and use for color accents on sunny terraces.

TREES AND SHRUBS. Prune raspberries, cutting out old canes which have finished fruiting.

INDOOR GARDENING. Get all pots washed and ready to use. Make up mixtures of potting soil for house plants. Bench snapdragons. Plant freesia bulbs.



SEPTEMBER

Autumn is here. The nights are cooler, and the first frost can come any time after Sept. 15th in the Philadelphia area. Our native goldenrod and asters fringe the roadside.

LAWNS. Grass grows faster with cooler weather, so it is back to cutting twice a week and fertilize with a high-nitrogen fertilizer.

FLOWER GARDENS. As frosts hit the garden, pull out shabby annuals. Zinnias are the first to go, then marigolds, finally petunias. Divide perennials and line out in the cutting garden. Fill coldframe with biennials—pansies, foxgloves, etc.

VEGETABLE GARDEN. Sow last crop of spinach. After the first frost, start using celery.

INDOOR GARDENING. Make cuttings of lantana, geranium, fuchsia, impatiens, coleus, ageratum. Repot house plants if they need it and bring indoors. Pot up some of your outdoor annuals and bring them inside for house plants. Pot up herbs for the kitchen windowsill. Sow seed of stock and schizanthus for winter greenhouse bloom.



OCTOBER

This is the month of glorious autumn color, the month of falling leaves. American maples, sweet gum, poplar, oak and dogwood are all ablaze. And the threat of frost hangs heavy. Pumpkin time!

LAWNS. Where there are enough large leaves to smother the grass, rake promptly or use a leaf blower. Save your leaves for composting and mulching.

FLOWER GARDENS. This is planting time for spring bulbs. If mice and squirrels are a problem, protect the bulbs with wire netting, get cats and dogs or wait till the ground has frozen to plant (digging with a pickaxe, alas.) Construct frames to support protective covers for chrysanthemums in cutting garden. Dig tender bulbs such as gladiolus and dahlias, after the frost has singed the tops but before the ground freezes. Store them in a cool place where they will not freeze. Pull out annuals and cut back perennials as they grow shabby. Plant lily bulbs as soon as received. Line out pansy seedlings in cutting garden for outdoor wintering.

WINDOW BOXES AND PLANT TUBS. Replace frosted annuals with dwarf evergreens.

VEGETABLE GARDENS. Spade heavy, clay soils this fall, so winter frost action will mellow them.

TREES AND SHRUBS. Pick and sort apples and store in a cool but frost-free place. Do transplanting early enough for plants to take hold before the ground freezes.

INDOOR GARDENING. After first frost, pot up perennials and shrubs for forcing and store in a cold frame. Repot amaryllis bulbs, and give water, sun and heat for winter gloom. Bench stock. Pot up ornithogalum, gloriosa lilies, iris. Sow sweet peas for February cutting. Pot up narcissus, tulip and hyacinth bulbs for forcing, and sink pots in coldframe or other convenient, cool place for 8-week rooting period. Cover pots with layers of sand, soil or hay or leaves.

POOLS. Drain and cover.



NOVEMBER

Snow and ice storms are possible from now on. Be prepared for the worst.

LAWNS. Finish raking leaves.

FLOWER GARDENS. Towards end of month, you can make outdoor sowings of hardy annuals—sweet alyssum, California poppies, nicotiana, portulaca and cleome. These will germinate early next spring before the soil can be worked. Make plans on squared paper of existing plantings in flower beds, before the plants have all died down or been cut back. Finish planting spring bulbs. Cut down chrysanthemums and tidy up flower beds. Sow seeds of hardy perennials in outdoor seedbeds for cold exposure. Plant lily bulbs as soon as received.

ROSE GARDEN. Cut hybrid teas back to 3 ft. so they won't be whipped by winter winds.

VEGETABLE GARDEN. Cover celery to keep ground from freezing. TREES AND SHRUBS. Sow seeds in outdoor seedbed for cold exposure or stratefy them by storage in jars of peat and sand in a cold place. Tie multi-trunked evergreens with twine to prevent their splitting under the weight of heavy snow. Wrap box bushes closely with chicken wire to prevent breakage from heavy snow. If this wire is left on all year, the new growth will come through and cover it. Rather than look at ugly burlap covers all winter, plan to spray monthly with an antidesiccant such as Wilt-Pruf or Foli-Gard. Mulch broad leaved evergreens. Protect young fruit trees from rabbits by putting collars of wire netting around trunks.

COLD FRAMES. Put clamps of doubtfully hardy chrysanthemums in frame for winter protection. Take hardwood cuttings of trees and shrubs and bury them in frame. Watch ventilation.

INDOOR GARDENING. Be sure you have a supply of potting soil inside before the ground freezes. Plant bulbs of Narcissus Paperwhite and Soleil d'Or in pebbles for Christmas bloom. Keep poinsettias and Christmas cactus away from artificial light. They need the short days of the natural season to produce flowers. Pot precooled Easter lily bulbs 120 days before Easter.

TOOLS. Send all mowers, shears and saws to be sharpened. Store power mowers according to the manufacturer's directions. Clean garden tools with linseed oil and store for winter. Clean, sort and bundle garden stakes.

STEPS AND WALKS. Avoid chemical de-icers which may kill grass and plants they drain over. Sand is safer.



DECEMBER

You may still be picking pansies outdoors, this month, and you may have deep snow. The ground will probably freeze.

FLOWER GARDENS. Finish tidying up. After ground freezes and mouse danger is over, topdress flower beds with manure (but not on iris) and cover with salt hay or leaves to keep soil temperature more even. Cover pansies with salt hay.

ROSE GARDEN. Hill roses 8-10 inches high with manure or soil after the ground freezes.

VEGETABLE GARDEN. Topdress with manure and mulch with whatever is available. Cover strawberries with salt hay.

COLD FRAMES. Watch ventilation.

TREES AND SHRUBS. Prune evergreens to shape, and use prunings for Christmas decorations. Watch for tent caterpillar clusters and bagworm nests on twigs. Collect them in paper bags and burn so eggs won't hatch in spring.

INDOOR GARDENING. Turn windowsill plants regularly to keep plants well shaped. As you trim house plants to make them bushy, make cuttings of the trimmings. Sow seeds of flowering annuals for spring cut flowers.



JANUARY

Winter is really here, and it is a good chance to see the exposed skeleton of any garden and make notes for improvement. Time out to feed the birds and catch up on that pile of garden magazines which has been growing higher and higher all year. Time out to visit collections of evergreens and the great public conservatories.

LAWNS. A good time to fertilize the lawn with sewage sludge (very high nitrogen) if you live near a treatment plant.

TREES AND SHRUBS. If there is a great deal of pruning to be done, start now. But remember that wounds heal more quickly if you wait till nearer spring. Cut out dead wood and prune to shape on shade and fruit trees. Do rejuvenation pruning on overgrown lilacs and mockorange. Now, there is time to cut down diseased or unwanted trees. Deciduous trees and shrubs can be transplanted this month with frozen ball.

INDOOR GARDENING. Start bringing pots of spring bulbs inside for forcing. Start seed of petunias, marigolds and snapdragon. After flowering, put poinsettias in cellar or under greenhouse bench for a 10-week drying-off period. Wash pots regularly as they are emptied—you may need one in a hurry. Try hybridizing and collecting seed on your African Violets. Repot house plants as needed.

BY THE FIRESIDE. Make plans on paper for flower beds, vegetable and cutting gardens. Send in your seed order early. If you want professional help in designing your place, call for it now so planting plans will be ready by early spring.



FEBRUARY

It can be hot and it can be cold. You may be most thoroughly snowed in or you may have snowdrops and winter aconite blooming in the Winter Garden. Skunk Cabbage will be blooming by the very end of the month.

COLD FRAMES. Watch ventilation carefully.

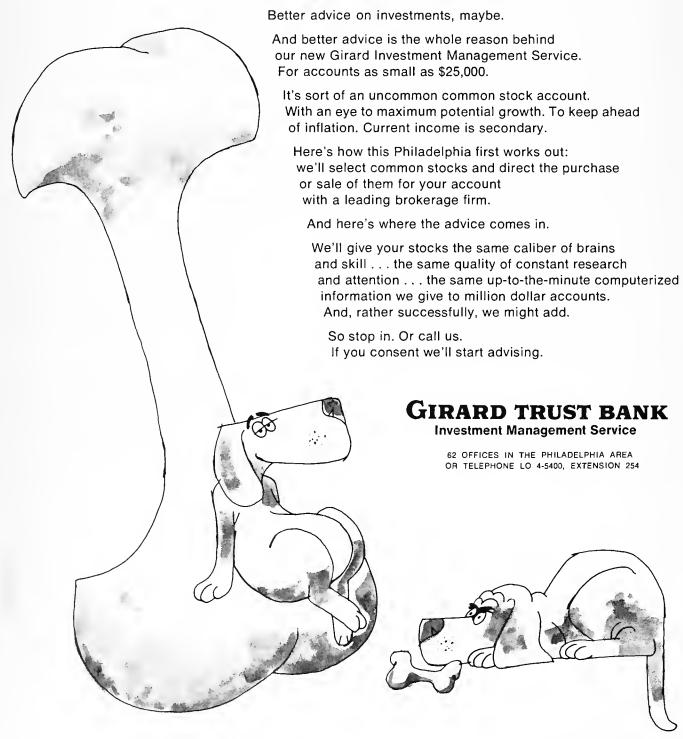
TREES AND SHRUBS. Spray for euonymus scale with oil emulsion at dormant strength. Finish pruning shade and fruit trees. Grapes can be pruned by end of month.

INDOOR GARDENING. Start gloxinia tubers for June flowers or seed for August bloom. Bring potted perennials and shrubs inside from coldframe for forcing. In the greenhouse, sow seeds of gerbera for next winter's cut flowers and, towards the end of the month, sow seeds of broccoli, Brussels sprouts, cabbage, cauliflower and lettuce. Start begonia tubers for May bloom. Start ageratum by seed or cuttings for spring bloom.

FLOWER ARRANGING. On warm days, cut branches of forsythia, flowering quince and fragrant honeysuckle for forcing indoors.

BY THE FIRESIDE. Order mail-order perennials, trees and shrubs now to be sure of shipment before hot weather hits.

How come the other guy always seems to make out better than you do?



The home vegetable garden offers the gourmet gardener the deep satisfaction of growing at least some of his own food; succulent vegetables of top "table" quality which cannot always be purchased at the local market. Only by growing his own can he enjoy this luxury because with the American preoccupation with size and mass distribution we have frequently bred out quality and flavor. With wise planning he can have food specialties before they are in the market or late in the season after the commercial crop is harvested.

The home gardener is not interested in the shipping or keeping qualities of a vegetable that will be served on his table within an hour after it is picked, so in selecting varieties for his home garden he should try to avoid those that are recommended for market gardeners or commercial growers or those that have a short harvest season unless the seedsman also recommends them for the

home garden as well.

The following varieties, some old, some new, should all give excellent results in the Delaware Valley area.

Asparagus—Mary Washington

Beans—Bush—Tendercrop, Tenderpod, Greencrop,

Eastern Butterwax

Beans—Lima—Fordhook US 242

Beans—Pole—Blue Coco*

Beets—Crosby's Egyptian, Detroit Dark Red,

Long Season

Broccoli-Waltham 29

Brussels Sprouts—Jade Cross

Cabbage—Earliana, Vanguard II

Carrots—Nantes, Pioneer

Cauliflower—Snowball 25, Royal Purple

Corn—Spring Gold, Wonderful, Miniature

Cucumber—Burpee Hybrid, Challenger

Eggplant—Black Magic Hybrid

Endive-Green Curled

Leeks—Swiss Special, Broad London

Lettuce—Summer Bibb, Salad Bowl, Buttercrunch,

Ruby

Okra—Clemson Spineless

Onion—Ebenezer, Yellow Sweet Spanish

Parsley—Paramount

Peas—Little Marvel, Wando, Lincoln

Peas Edible—podded—Mammoth Melting Sugar*

Pepper—Pennwonder, Fordhook

Radish—Champion, Icicle

Rhubarb—MacDonald, Valentine

Spinach—America

Squash—Zucchini Hybrid, Seneca Baby Crookneck,

Butternut

Swiss Chard—Fordhook Giant

Tomatoes—Rutgers, Moreton Hybrid, Sunray,

Red Cherry, Yellow Plum

Turnips—Purple Top, White Globe

* This variety has "strings" which must be removed before cooking. (Any cook not yet fifty years of age should ask an older cook to explain and demonstrate the technique of "stringing".)



Popsicle carrot newly developed at Burpee's Fordhook Farm





COMPETITIVE CLASSES

THROUGHOUT THE WEEK:

Artistic Section

Room Sections, Table Settings, Pressed Flower Pictures

Horticultural Section

Daffodils, tulips, hyacinths, window boxes, trained ivies, succulent gardens, decorative plants for a shady or a sunny terrace, alpine gardens, hanging baskets

FLOOR LEVEL ARRANGEMENTS

Sunday, March 9 and Monday, March 10 At Home In Foreign Lands

Tuesday, March 11 through Thursday, March 13
A Stabile

Friday, March 14 through Sunday, March 16 A Still Life

NICHES

Sunday, March 9

Carnations In The Romantic Tradition Serenity China From Around The World

Monday, March 10

Play Of Light Fancy Free The Lure of Spring

Tuesday, March 11

North With The Spring Flowers Of Foreign Lands Birthstone

Wednesday, March 12

Mood Indigo Patterns Measure For Measure

Thursday, March 13

La Scala Symphony of Roses Tiajuana Brass

Friday, March 14

Byobu Opalescence New Challenge

Saturday, March 15 and Sunday, March 16

Contemporary Art Colorama Toy Lands

HORTICULTURAL SECTION

Sunday and Monday, March 9 and 10

Herb collections, Orchid collections, miniature geraniums, foliage plants, espaliers, ferns, begonias, forced herbaceous perennials, alpine plants.

Tuesday, Wednesday, Thursday, March 11, 12, 13 Window sill collection for a sunny or shady window sill, collection of plants for a cool, medium or warm greenhouse, miniature orchids, herbs, two plants grown as a pair, vines or climbers, gesneriads and African violets, orchids, forced branches, alpine plants.

Friday, Saturday, Sunday, March 14, 15, 16

Window sill collection for a sunny or shady window sill, collection of plants for a cool, medium or warm greenhouse. Miniature gloxinias, standards, flowering plants, foliage plants for indoor culture, azaleas, ericacious plants in bloom, rock plant gardens.

FOR BETTER GARDENING... PLANT FOR BEAUTY





FOR TOP QUALITY PLANTS AND LANDSCAPING SEE ONE OF THESE LOCAL NURSERYMEN



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YELLOW SPRINGS NURSERY Chester Springs

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LEHIGH COUNTY:

BETTER HOMES LANDSCAPE COMPANY Allentown

FORREST TREE SERVICE

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Allentown

LICHTENWALNER'S NURSERY Allentown

PARKLAND NURSERIES Orefield

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Mertztown RUSSOLI'S NURSERY

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GALES'S NURSERY Ambler

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Bethlehem SUBURBAN NURSERY Bethlehem

THAYER TREE SERVICE Catasauqua

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POSSUM HOLLOW NURSERIES

Philadelphia SOMERTON NURSERIES Somerton

VARADY'S NURSERIES Philadelphia



Most gardeners enjoy becoming experts in a particular area of horticulture, or in the culture and development of a single genus of plants. These specialists have formed at least 40 national organizations which afford their members access to comprehensive

knowledge in a single field of concentration.

Thirty-five national organizations are listed here. 16 have one or more local branches in the Delaware Valley. They meet regularly and welcome new members who share their special interest.

African Violet Society of America, Inc.

Mrs. J. Addison MacLean, Secretary 49 Saunders Road Norwood, Mass. 02062 Vembership \$4.00, includes quarterly magazine

African Violet Society of Philadelphia Mrs. Henry K. LaBadie Water Tower Recreation Center Hartwell & Ardleigh Streets Philadelphia, Pa. 19118

African Violet Society of Springfield Mrs. Kenneth H. Lloyd 3716 Huey Avenue Drexel Hill, Pa. 19026

Crusader African Violet Society Mrs. Majorie J. Hawley 1028 Rees Avenue Bryn Mawr, Pa. 19010

Happy Pastimers African Violet Society of Bucks County Mrs. Sylvia Steinkirchner 213 West Afton Avenue Yardley, Pa. 19068

Philadelphia Center City African Violet Society Mrs. Dorothy Sutton 8023 Terry Street Philadelphia, Pa. 19136

Delaware African Violet Society Mrs. Kyle Premeaux 1202 Fairview Avenue Wilmington, Delaware 19809

American Begonia Society, Inc.

Pearl Bene I, Membersh p Secretary 10331 S. Colima Road Whittier, Cal. 90604 Membersh p \$4.00 per year. includes month y publication

Elsa Fort Branch Miss Lola Price, Secretary 628 Beech Avenue Laurel Springs, N.J. 08021

Philobegonia Branch Mrs. Anne W. Stiles, Secretary R.D. #2, Box 43B East Delaware Trail Medford, New Jersey 08055 William Penn Branch Mrs. Francis D. Crew Nantmeal Hunt Farm R.D. 1 Glenmoore, Pa. 19343

The American Bonsai Society

Post Office Box 95 Bedford. New York 10506 Membership \$5.00 per year, includes quarterly journal

The Pennsylvania Bonsai Society Ernesta D. Ballard, Treasurer 325 Walnut Street Philadelphia, Pa. 19106

Delaware Bonsai Society Mr. Larry Ballard, Pres. 942 Parkside Blvd. Claymont, Delaware 19703

The American Boxwood Society

Box 85 Boyce, Virginia 22620 Membership \$3.00 per year. includes quarterly bulletin

The American Camellia Society

Joseph H. Pyron, Executive Secretary Box 212 Fort Valley, Georgia 31030 Membership \$6.00 per year, includes Yearbook and four journals

The American Daffodil Society, Inc.

George S. Lee, Jr., Executive Director 89 Chichester Road New Canaan, Connecticut 06840 Membersh p \$5.00 per year, Includes quarterly journal

Delaware Daffodil Society Mrs. J. W. Williams, President 512 Foulkstone Rd. Wilmington, Del. 19803

The American Dahlia Society, Inc.

Mrs. Caroline Meyer
92-21 West De aware Drive
Mystic Is ands
Tuckerton, New Jersey 68087
Membership \$5.00 per year,
includes quarterly bulletin

Greater Philadelphia Dahlia Society Stanley Johnson, President Pennypack, 406 Franklin Avenue Cheltenham, Pa. 19012

American Fern Society

LeRoy K. Henry, Treasurer Division of Plants, Carnegie Museum Pittsburgh, Pa. 15213 Membership \$5.00 per year, includes quarterly journal

The American Gesneria Society

Theodore Bona, Membership Secretary 505 S. 12th Street Reading, Pa. 19602 Membership \$4.00 per year, includes bi-monthly magazine

The American Gloxinia and Gesneriad Society, Inc.

Diantha B. Buell, Secretary Eastford, Conn. 06242 Membership \$4.00 per year, includes bi-monthly magazine

Delaware Valley Chapter Paul Mitchell, President 330 Union Avenue Runnemede, New Jersey 08078

The American Hemerocallis Society

Mrs. Lewis B. Wheeler, Secretary Box 458, Crown Point. Indiana 46307 Membership \$5.00 per year, includes quarterly journal

Philadelphia Area Daylily Club Cherry McCracken, Treas. 303 West Dutton Mill Road Chester, Pa. 19014

The American Hibiscus Society

James E. Monroe Post Office Box 98 Eagle Lake, Florida 33839 Membership \$5.00 per year, includes quarterly publication

American Hosta Society Mrs. Glen Fisher 4392 W. 20th Street Oshkosh, Wisconsin 54901

The American Iris Society

Clifford W. Benson, Executive Secretary 2315 Tower Grove Boulevard St. Louis, Missouri 63110 Membership \$5.00 per year, includes quarterly bulletin

Delaware Valley Iris Society Norman R. Clouser, President 218 Raymond Street Hyde Park, Reading, Pa. 19605

The American Magnolia Society

Philip J. Savage, Jr., Secretary-Treasurer 2150 Woodward Avenue Bloomfield Hills, Mich. 48013 Membership \$2.00 per year, includes occasional newsletter

The American Orchid Society, Inc.

Botanical Museum of Harvard University Cambridge, Mass. 02138 Membership \$10.00 per year, includes monthly bulletin

Delaware Orchid Society Mr. Lewis Tabor, President 202 Prospect Drive Blue Rock Manor Wilmington, Del. 19803

The Greater Philadelphia Orchid Society Mrs. Eloyse Mailman, President 1560 Hower Road Abington, Pa. 19001

The Southern Pennsylvania Orchid Society Dr. Howard Page Wood, President 842 Buck Lane Haverford, Pa. 19041

American Penstemon Society

Mrs. Merle Emerson Post Office Box 64 Somersworth, N. H. 03878 Membership \$2.00 includes annual bulletin

American Peony Society

107½ W. Main Street Van Wert, Ohio 45891 Membership \$7.50 per year, includes quarterly bulletin

The American Plant Life Society & The American Amaryllis Society Group

Dr. Thomas H. Whitaker, Executive Secretary Box 150, La Jolla, Calif. 92038 Membership \$5.00 per year includes Amaryllis Yearbook

The American Primrose Society

Mrs. Lawrence G. Tait, Treasurer 14015 84th Avenue N.E. Bothell, Washington 98011 Membership \$3.50 per year, includes quarterly journal

American Rhododendron Society

Mrs. William Curtis, Executive Secretary 24450 SW Grahams Ferry Road Sherwood, Oregon 97140 Membership \$7.50 per year, includes quarterly bulletin

The Valley Forge Chapter Charles W. Herbert, President Phoenixville, Pa. 19460

Philadelphia Chapter Mrs. Marie Tietjens 1064 Wagon Road Blue Bell, Pa. 19422

American Rock Garden Society

Richard W. Redfield Box 26 Closter, New Jersey 07624 Membership \$5.00 per year, includes quarterly bulletin

Delaware Valley Region Lee M. Raden, President Chester Springs, Pa. 19425

American Rose Society

4048 Roselea Place Columbus, Ohio 43214 Membership \$7.50 per year, includes monthly magazine

Delaware County Rose Society Joseph A. Mammino 537 W. Springfield Road Springfield, Pa. 19064

Penn Jersey Rose Society Lewis C. Gross 522 Market Street E. Paterson, New Jersey 07513

Philadelphia Rose Society John A. Borneman, Jr. 1208 Amosland Road Prospect Park, Pa. 19076

West Jersey Rose Society Samuel H. Olsen 613 Billings Avenue Paulsboro, New Jersey 08066

Bromeliad Society

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Cactus and Succulent Society of America, Inc.

Box 167 Reseda, Cal. 91335 Membership \$5.00 per year, includes bi-monthly journal

Philadelphia Cactus & Succulent Society James G. Early, Secretary 6901 Muncaster Mill Derwood, Md. 20855

The Gourd Society of America, Inc.

Elmwood, Massachusetts 02337 Membership \$2.50 a year, includes three bulletins

The Holly Society of America, Inc.

Bluett C. Green, Jr. P.O. Box 8445 Baltimore, Maryland 21235 Membership \$5.00 per year, includes newsletter and proceedings of meetings

Central Pennsylvania Chapter Dr. Samuel O. Curry Hershey, Pa. 17033 Mt. Holly Chapter Earl H. Robinson, President Medford Nursery Eayrestown, Red Lion Road R.D. #1 Medford, New Jersey 08555

The Indoor Light Gardening Society of America, Inc.

Mrs. Fred D. Peden, Secretary 4 Wildwood Road Greenville, South Carolina 29607 Membership \$4.00 per year, includes bi-monthly bulletin

International Geranium Society

1413 Shoreline Drive Santa Barbara, Cal. 93105 Membership \$4.00 per year, includes quarterly magazine

National Chrysanthemum Society, Inc.

Mrs. George S. Briggs, Secretary 8504 Laverne Drive Adelphi, Maryland 20783 Membership \$4.00 per year, includes bi-monthly bulletin

Delaware Valley Chrysanthemum Society Wilbur Beck, President 232 Howarth Road Media, Pa. 19063

North American Fruit Explorers

Robert Kurle 87th and Madison Streets Hinsdale, III. 60521 Membership \$2.00 per year, includes quarterly bulletin

North American Gladiolus Council

H. Edward Frederick 234 South Street South Elgin, Illinois 60177 Membership \$4.00 per year, includes quarterly bulletin

The North American Lily Society, Inc.

Fred Abbey North Ferrisburg, Vt. 05473 Membership \$7.50 per year, includes quarterly bulletin & Yearbook

Mid-Atlantic Regional Lily Group Richard W. Lighty, President University of Delaware Newark, Delaware 19711

Saintpaulia International

Post Office Box 10604 Knoxville, Tennessee 37919 Membership \$4.00 per year, includes bi-monthly publication

The Palm Society

Lucita Wait 7229 S.W. 54th Street Miami, Florida 33143 Membership \$10.00 per year, includes quarterly bulletin

GARDEN CLUBS IN THE DELAWARE VALLEY

There are approximately 125 garden clubs in the Delaware Valley. More than 20 of these clubs, including the Garden Club Federation of Pennsylvania, to which many of them belong, are active participants in the 1969 Spring Flower Show. Their members are exhibiting in individual competitive classes and in the garden, niche, room and table classes.

The clubs listed below have made a financial contribution to the Show. We thank them for their support.

Bryn Mawr Spade and Trowel Club

Chestnut Hill Garden Club

Club of Little Gardens of Malvern

Conestoga Garden Club

Country Gardeners

The Evergreens

Fairless Hills Garden Club

Four Counties Garden Club

Four Lanes End Garden Club

Garden Class of Woman's Community

Club of Uwchland

Garden Club of Drexel Hill

Garden Club of Harrisburg

Garden Club of Philadelphia

Garden Club of Springfield

Garden Club of Wilmington

The Garden Club of Trenton

The Greene Countrie Garden Club

Huntingdon Valley Garden Club

Martha Washington Garden Club

Men's Garden Club of Delaware Valley

Mill Creek Valley Garden Club

Moorestown Garden Club

Norristown Garden Club

Old Eagle Garden Club

Old York Road Garden Club

Outdoor Gardeners of Montgomery

County

Penn Valley Garden Club

Pine Ridge Garden Club

Providence Garden Club of

Pennsylvania

Rosemont Garden Club

Rose Tree Gardeners

The Seedlings

Society of Little Gardens of Philadelphia

Spade & Trowel Garden Club of

Kennett Square

The Suburban Garden Club

Towanda Garden Club

Town and Country Gardeners

Twin Valleys Garden Club

Valley Forge Garden Club

The Valley Garden Club

Villanova Garden Club

The Weeders

The West Chester Planters

Wissahickon Garden Club

The Women's Garden Club of Lancaster

Membership in these societies is open to all. They hold meetings and shows throughout the year, giving members the opportunity to discuss common interests, share information, exhibit their handiwork and enjoy the exhibits staged by others.

Burholme Horticultural Society

Charles E. Knauf, President 1649 Beech Avenue, Philadelphia, Pa. 19126 Annual dues \$2.00

The Germantown Horticultural Society

Mrs. Henry Stephany Corresponding Secretary 521 E. Conarroe, Philadelphia, Pa. 19128 Annual dues \$3.00

Horticultural Society of South Jersey

Paul J. Conlin, Corresponding Secretary 308 Beechwood Avenue Haddonfield, N.J. 08033

The Pennsylvania Horticultural Society

Ernesta D. Ballard, Director 325 Walnut Street, Philadelphia, Pa. 19106 Annual dues \$12.50

HORTICULTURAL SOCIETIES IN THE DELAWARE VALLEY

Trevose Horticultural Society

Meredith Davis, President 605 Belmont Avenue, Southampton, Pa. 18966 Annual dues \$2.00

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PUBLIC GARDENS IN AND NEAR PHILADELPHIA

Philadelphia enjoys a reputation of being one of the great horticultural centers of the country. It has many fine gardens which are open to the public. Listed herewith is a directory of botanic gardens, arboretums and similar establishments all worth seeing.

AMBLER CAMPUS OF TEMPLE UNIVERSITY

Meetinghouse Road, Ambler, Pa.

Large herbaceous borders, collections of woody plants, wildflowers.

THE ARTHUR HOYT SCOTT HORTICULTURAL FOUNDATION OF SWARTHMORE COLLEGE

Magnolias, flowering cherries, crabapples, lilacs, hawthornes, Dexter hybrid rhododendrons, daffodils, tree peonies.

HAVERFORD COLLEGE CAMPUS

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140 different specimens of trees on the 216 acre campus.

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BOWMAN'S HILL WILDFLOWER PRESERVE

Washington's Crossing State Park

1,000 species of native Pennsylvania plants, along twelve marked trails. Bird banding station.

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Philadelphia

18th Century gardens at 4th and 3rd on Walnut; Magnolia garden at 4th and Locust; Independence Mall.

JAPANESE GARDEN AND HOUSE

Fairmount Park

Lake, rocks, oriental plants, enclosed by Japanese fencing. Admission charge 25¢.

LONGWOOD GARDENS

Kennett Square, Pa.

Extensive formal gardens, rock garden, water lilies, special plant collections, year-round conservatory displays.

THE MORRIS ARBORETUM OF THE UNIVERSITY OF PENNSYLVANIA

Chestnut Hill, Philadelphia

Mature specimens of temperate tree species, evergreens, oaks, hollies, drug plants, fernery, rose garden.

SWISS PINES PARK

Charlestown Road, Valley Forge

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JOHN J. TYLER ARBORETUM

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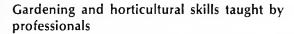
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UNDER THE BIG TOP

TALKS

As part of its plan to make the Flower Show informational as well as beautiful, the Pennsylvania Horticultural Society, sponsor of the Show, has arranged with the Cooperative Extension Service of the Pennsylvania State University to have daily talks on horticultural subjects of interest to all gardeners.

The talks will be presented at 2 p.m. Monday through Saturday. The speakers and subjects are listed below:

Saturday. The speakers and subjects are listed below:		
Monday, March 10	Pruning Ornamentals — Paul Reber, Montgomery County As- sociate Agricultural Agent	
Tuesday, March 11	Simple Steps for Home Landscaping, Dr. J. R. Nuss, Extension Ornamental Specialist	
Wednesday, March 12	ABC's of Geranium Growing, Dr. Robert Fortney, Extension Floricultural Specialist	
Thursday, March 13	Home Lawn Care, Jr. John Harper III, Agronomy Specialist	
Friday, March 14	Spring Lawn Conditioning, William H. White, Philadelphia County Agricultural Agent	
Saturday, March 15	Ground Covers, Dr. Craig Oliver, Extension Ornamental Specialist	

FILMS

Regularly scheduled showings of prize-winning horticultural films selected from the Annual Film Festival of the American Horticultural Society will be shown at the times indicated below:

Monday through		Sunday, March 9 &
Saturday	Title	Sunday, March 16
12:30 PM	Flower Arrangements of Williamsburg	1:00 PM
1:00 PM	The Annual Miracle	2:00 PM
3:00 PM	The National Arboretum	3:00 PM
3:30 PM	Learning about Gardening	3:30 PM
5:00 PM	Capability Brown	5:00 PM
6:00 PM	Greener on Your Side	
7:00 PM	My Garden Japan	4:00 PM

UNDER THE BIG TOP

The 1969 Philadelphia Spring Flower Show proudly presents Julie Dannenbaum "Cooking with Flower" at 12 o'clock noon Friday, March 14, 1969

CHORAL GROUPS

At 4 p.m. and 8 p.m., Monday through Saturday, Choral Groups will be on hand to entertain Show visitors, all under the Big Top.

Schedule of Choral Group Appearances

schedule of cholar diod	ip Appearances
Mon., Mar. 10, 4 p.m.	Moorestown High School Conductor: Mrs. Jane M. Stetler
8 p.m.	Vineland Community Chorus Director: Mr. Henry R. Ricci
Tues., Mar. 11, 4 p.m.	Upper Darby High School Conductor: Mr. Harold R. Gallagher
8 p.m.	Villanova Singers, Villanova University Director: Mr. Herbert Fiss
Wed., Mar. 12, 4 p.m.	Plymouth-Whitemarsh High School Conductor: Mr. Robert J. Reilley
8 p.m.	Workmens Circle Chorus of Philadelphia Conductor: Mr. Morris Helzner
Thurs., Mar. 13, 4 p.m.	Philadelphia High School for Girls Conductor: Mr. William Murphy
8 p.m.	Cheltenham High School Conductor: Mrs. T. R. Stretton
Fri., Mar. 14, 4 p.m.	West Philadelphia Catholic Girls High School Conductor: Dr. Jeno Donath
8 p.m.	Saint Mary of the Angels Academy Conductor: Sister Marie Christine, O.S.F.
Sat., Mar. 15, 4 p.m.	Cardinal Dougherty High School Girls' Glee Club Conductor: Mr. Vito LaMonaca Boys' Glee Club Conductor: Rev. Francis F. Feret
8 p.m.	South Philadelphia High School Conductor: Mr. William N.

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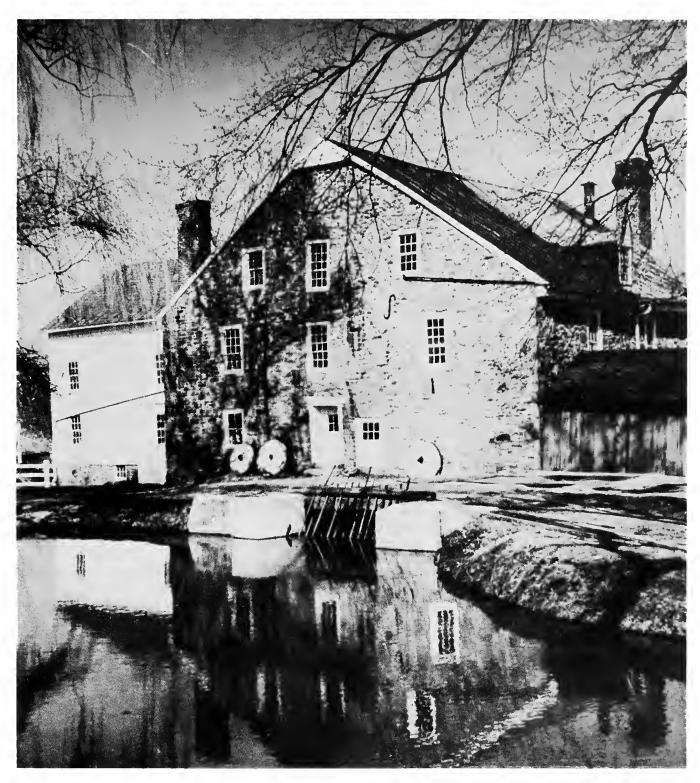
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Oaklynn Nurseries, Inc. Green Lane, Pa.

Snipes Farm & Nursery Morrisville, Pa.

Star Roses West Grove, Pa.

J. Franklin Styer Nurseries, Inc. Concordville, Pa.

Vick's Wildgardens, Inc. Gladwyne, Pa.

Whitemarsh Maintenance Corp. Plymouth Meeting, Pa.

Whitemarsh Nursery Plymouth Meeting, Pa.

Glen Spa Gardens Glen Mills, Pa.

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Rose Tree Gardeners Mrs. William R. Bates, Chr.

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Mill Creek Valley Garden Club Mrs. Charles M. Fletcher, Jr., Chr. Mrs. James P. McGowan, Chr.

Old Eagle Garden Club Mrs. Gordon G. Williams, Chr.

Valley Garden Club Mrs. M. Darwood Taylor, Chr.

West Chester Garden Club Mrs. D. Brooke Gilpin, Jr., Chr.

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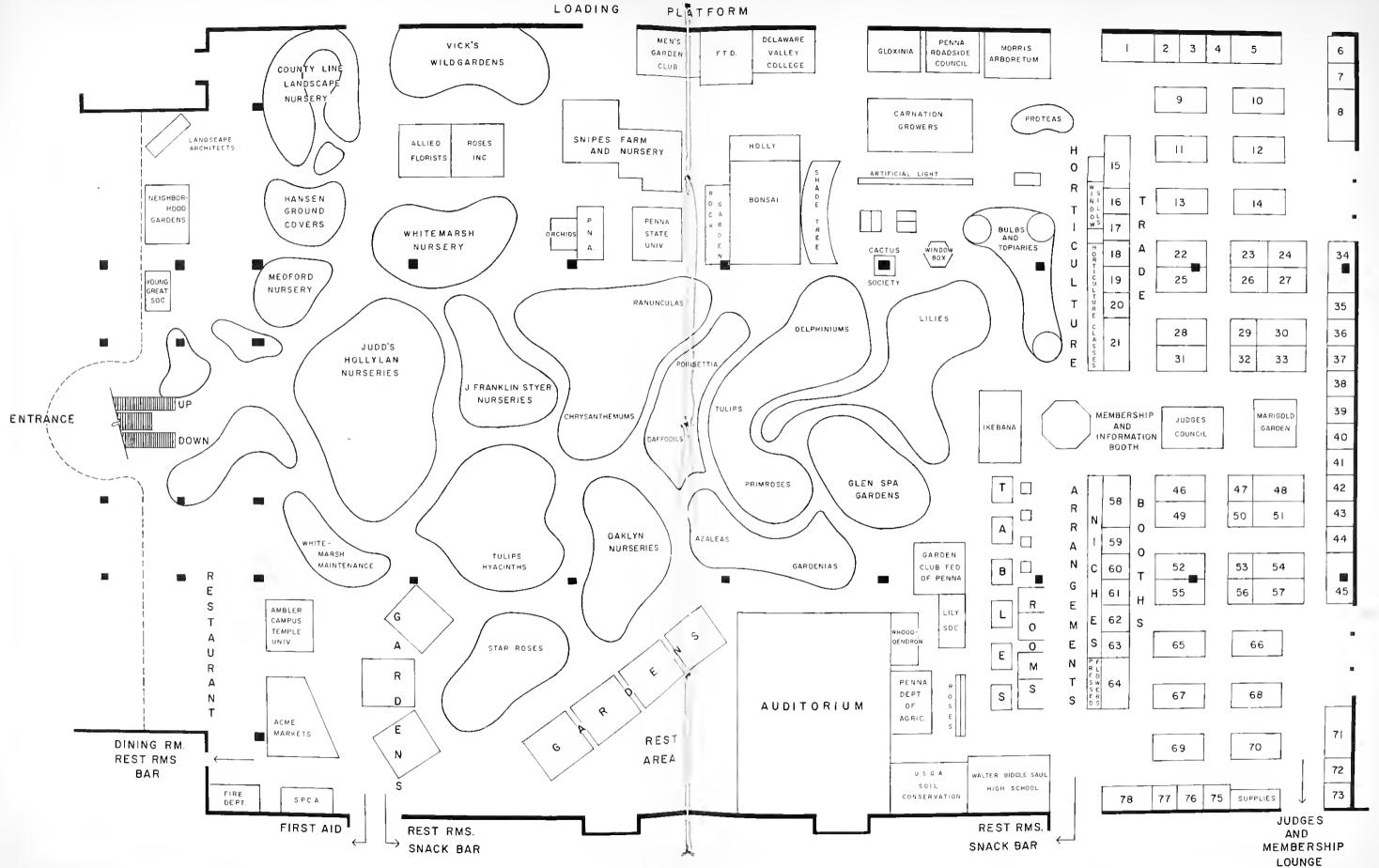
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Pleasant members' evenings



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31	Bell Telephone Co. of Pa. #1 Parkway Phila., Pa.	51A	William Drew 611 Main St. Riverton, N.J. Assorted handicrafts and imports	45 52	Wm. H. Frederick, Inc. 8605 Germantown Ave. Philadelphia, Penna. Outdoor furniture Fruit Bread House
69	Bowmaster, Inc. 18 N. 4th Street Minneapolis, Minn. Bowmaster Bowmaker	13	Edelweiss Gardens Box 66 Robbinsville, N.J. Potted house plants	32	Park & E. Norwegian Sts. Pottsville, Pa. Baked Fruit Breads
38, 39, 40, 41	& Accessories W. Atlee Burpee Co. Fordhook Farms Doylestown, Penna. Seeds, Bulbs; Cut	18	Electronic Door Service Co. Route 38 Moorestown, N.J. Garage Door Openers and Mosquito Control Device	70 26,	Gaudio's Garden & Christmas Centers Camden, N.J. Woodbury, N.J. Plants and flowers Gravely Tractor Co.
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36, 37	Competent Home Products 961 Strafford Drive Toms River, N.J.	60	Encyclopaedia Britannica, Inc. 425 N. Michigan Ave. Chicago, III. Encyclopaedia	11	West Islip, L.I., N.Y. Holland bulbs; delft china; Flower holders Hawaiian Nurseries Brooklyn, N.Y.
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325 Walnut Street, Independence National Historical Park, Philadelphia, Pa. 19106

USE THE EXTENSION SERVICE

The Cooperative Extension Service of the Pennsylvania State University has an office in your county with a staff of County Agents and Home Economists to give you free, unbiased, up-to-date information in the broad fields of Agriculture and Home Economics.

From the Extension Office you can obtain information on flower and vegetable gardening; your lawn; soil testing, liming and fertilizing; insect and disease identification and control; home fruit management; planting and care of shrubs and trees, safe use of pesticides and many other subjects. Copies of all Penn State publications (bulletins, leaflets and mimeographs) are available free for the asking.

The County Agent is an expert with technical training and experience in the conditions and problems of the Delaware Valley. His job is to answer your questions and give you helpful advice. When he is stumped, he can call upon a corps of specialists at the Pennsylvania State University.

If you want to delve deeper into a subject, but don't want to go back to school, a Correspondence Course might be the answer. Since 1892 Penn State has been a pioneer in this field, and at the present time it offers 71 correspondence courses in Agriculture and 17 correspondence courses in Home Economics. A partial listing includes Home Lawns, Principles of Insect Control, Propagation of Plants, Home Floriculture, Rhododendrons and Azaleas and House Plants.

4-H Club work for young people ages 9-19 is also part of the Cooperative Extension Program. There may already be a club in your community. You can find out by calling the Extension Office. To start a 4-H Club you should have 10 or more members, (boys, girls or both) and a volunteer adult leader. Club members choose their own project and decide how often to meet and where meetings will be held. A partial list of projects in gardening includes: Annuals, Annuals and Perennials, Growing Cut Flowers, Lawn Management, Strawberries, Vegetable Gardening, Landscaping and Indoor Gardening.

Each County Agent holds meetings for homeowners on subjects of interest to the amateur gardener. In addition, since 1961, the Agents in Bucks, Delaware, Chester, Montgomery and Philadelphia Counties have conducted meetings for nurserymen, greenhouse operators, garden supply dealers, landscape contractors, tree surgeons and building and grounds superintendents.

Your County Agent is as close as your telephone. Or you can stop at the Penn State Extension Service booth at the Spring Flower Show and get acquainted. Below is a listing of the addresses and telephone numbers of the Agents in five Southeastern Pennsylvania Counties.

COUNTY	ADDRESS	TELEPHONE
Bucks	Neshaminy Manor Center Doylestown, Pa. 1890 Courthouse	DI 9-2800
Chester	West Chester, Penna. 19380	696-3500
Delaware	Total Building Media, Penna. 19063	LO 6-0142
Montgomery	, 400 Markley Street Norristown, Pa. 19401	277-0574
Philadelphia	S.E. Cor. Broad & Grange Sts. Philadelphia, Penna. 19141	HA 4-0650-51

THE NEW JERSEY CO-OPERATIVE EXTENSION SERVICE

Operating in the same capacity, the Cooperative Extension Service at the College of Agricultural and Environmental Science, Rutgers, the State University in New Brunswick, New Jersey offers similar opportunities to New Jersey residents.

Agricultural Agents, Home Economists and 4-H Youth Agents have offices in each of the counties in the Delaware Valley area.

For more information, New Jersey residents can contact the offices located in their respective counties:

COUNTY	ADDRESS	TELEPHONE
Burlington	County Office Bldg. 49 Rancocas Road Mt. Holly, N.J. 08060	609-267-3300
Camden	County Extension Service Building 152 Ohio Avenue Clementon, N.J. 0802	609-784-1001
Gloucester	County Office Bldg. N. Delsea Drive Clayton, N.J. 08312	609-881-1200
Mercer	Court House Trenton, N.J. 08607	201-396-4593
Salem	County Administration Bldg. Market Street Salem, N.J. 08079	609-935-1360



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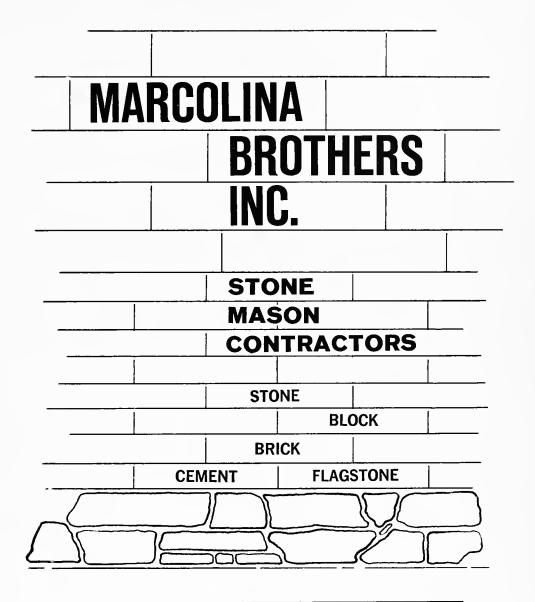
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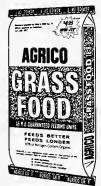
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By Mike Senkiw Agronomist

Every year I watch people pour time and money into lawns that fail them just when they want their lawns the most.

I see them reseed, feed, water, weed and mow, mow, mow! When it turns to hay in midsummer, I feel like calling out, "For Heaven's sake, when are you going to stop throwing money away and switch to Zoysia Grass."

always happy to get letters from people who have plugged in my Zoysia Grass, because they write to tell me how beautiful their lawns are even in mid-summer heat

IT'S AS HARDY AS BEAUTIFUL

A typical Zoysia owner, Mrs. Harry Winslowe in the heart of wintry New England, tells how she got rid of weeds with Zoysia: "We had a lawn that was a disgrace. My husband used weed killer for every known weed—but next season new weeds sprang up. We dug the lawn up twice and re-seeded before we learned about Zoysia. It does everything you say . . . how pleased we are with our Zoysia lawn."

And from Iowa came word that the Men's Garden Club of Des Moines picked a Zoysia lawn as the "top lawn—nearly perfect" in the area. Yet this lawn had been watered only once all summer up to August!

These represent but 2 of thousands of happy Zoysia owners. Their experiences show that you, too, can have a lawn that stays green and beautiful thru blistering heat, water bans—even drought!

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Your Green Beauty lawn takes such wear as cookouts, lawn parties, lawn furniture, etc. Grows so thick you could play football on it and not get your feet muddy. Even if children play on it, they won't hurt it — or themselves

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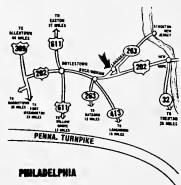
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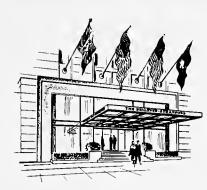
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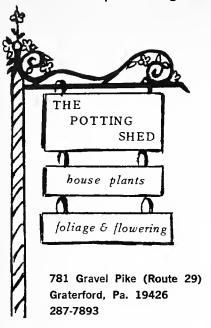
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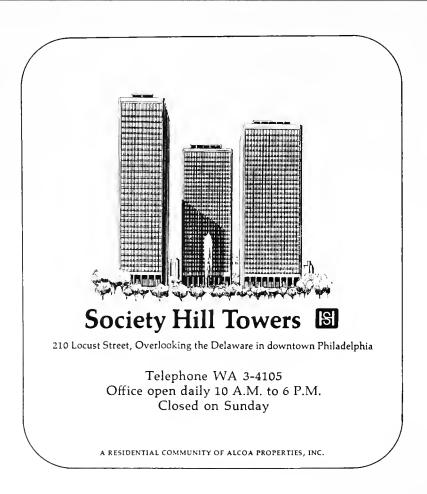
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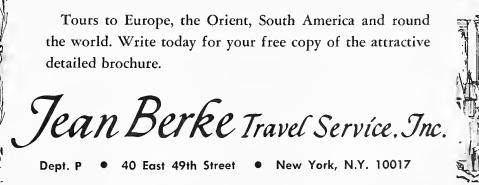
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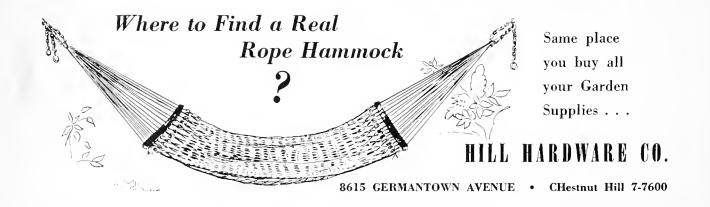
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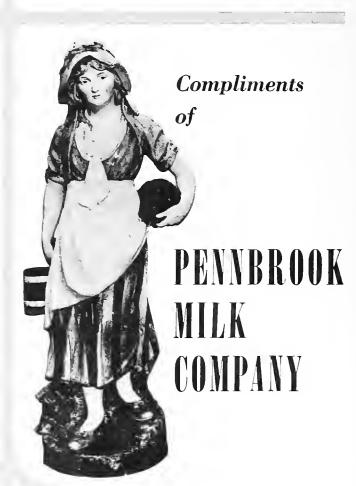


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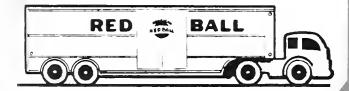




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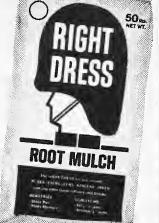
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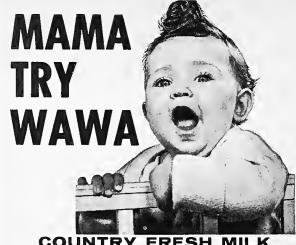


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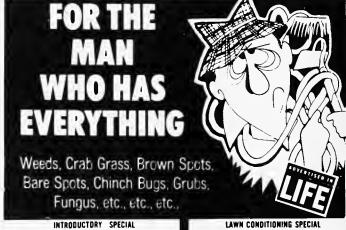


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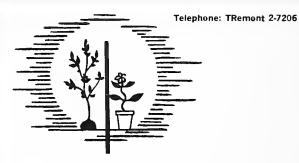
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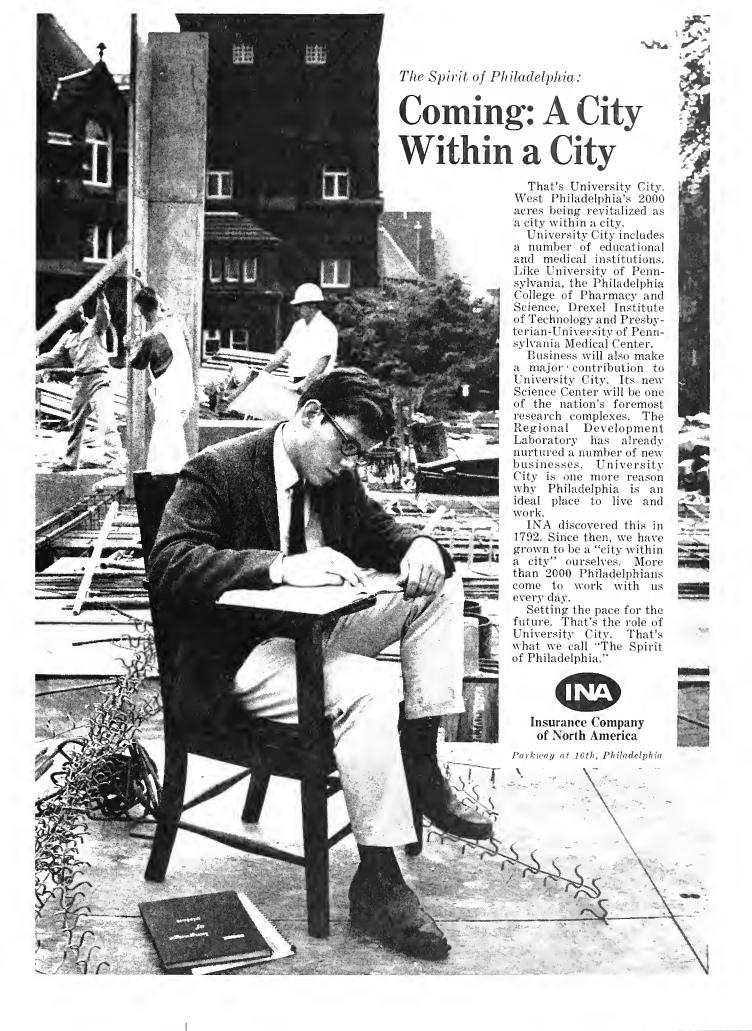


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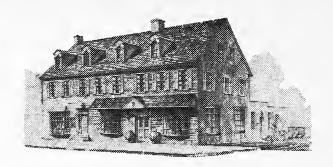
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Of all the kinds of artificial light available—incandescent, neon, mercury vapor, carbon arc, kerosene lamps, even tallow candles—light from fluorescent lamps possesses the greatest number of desirable characteristics for growing plants. It more nearly duplicates the colors of the solar spectrum than any other kind of artificial light; it is cool to handle, furnishing the plants with abundant light without much damaging heat; and the light spreads easily. Fluorescent light is economical in terms of the amount of usable light emitted for the amount of power consumed; and the lamps are manufactured in enough sizes, shapes, and colors to enable an indoor gardener to make a garden in whatever space he has.

Fluorescent light is applied to plants in different ways to achieve various kinds of results. In a cool greenhouse the lamps encourage tulips, hyacinths, and other hardy and semihardy bulbs to flower exactly when the flowers are wanted; and general fluorescent illumination in a greenhouse supplements the bleak light of short and often dull days of winter.

Indoor aquariums are flooded with fluorescent light, both to display the tropical creatures and the aquatic plants and to supply the energy needed by plants and fish. Shadow boxes and niches in the walls of a room are fitted with circlines (a circline is a fluorescent lamp in the form of a ring) and the prettiest plants of the moment are displayed in these wall openings or identations. Fluorescent lamps are wonderful above terrariums, and over propagating cases where seeds of rare and valuable exotic plants are germinated or cuttings are rooted. And, come February or March, many a dirt gardener who would not dream of burning electric lights all winter for an indoor flower garden turns on his fluorescent lights in the basement to start the seeds of flowers and vegetables for his outdoor garden.



Herbs

Best of all, though, are the tables or shelves or tiered stands where you grow the plants you like the most: perhaps the infinite varieties of African-violets exclusively; or, more likely, unrelated but fascinating plants such as cotton, coffee, tea, Norfolk Island pine, begonias, gloxinias and other gesneriads, bromeliads, orchids, geraniums, miniature roses, vining plants that climb and twine, and trailing plants that cascade over the edges of the benches.

The light from incandescent lamps has a certain usefulness to plants. During the winter, the light from a reading lamp is often sufficient to maintain foliage plants. However, most house plants are low-energy growing plants and they do not require the high-energy infrared radiation emitted (as heat) by incandescent lamps.

Some plants are easy to grow under fluorescent light indoors, others are more demanding and more difficult. There may be plants that will grow only in a greenhouse or conservatory (or in a tropical climate outdoors), but I do not know what they are. Except for alpine plants and similar hardy subjects, and the garden biennials that require a year in the open before they flower the second season, any plant of suitable size that grows and flowers in natural light will grow and flower in fluorescent light when the gardener supplies the right combination of cultural factors: temperature, relative humidity, nutrition, air, water, container, growing medium, drainage, and pest and disease control; and intensity and duration of light.

Any of the available shades of white fluorescent light can be used successfully provided other environmental and cultural factors are supplied according to a plant's needs. In order of preference, I like Gro-Lux lamps (but Wide Spectrum Gro-Lux for very special purposes only); a combination of one or two Gro-Lux lamps with one daylight or one cool-white lamp; a combination of one daylight and one natural lamp; a combination of one daylight and one warm-white lamp; or, if only one color of lamp were available, I would use cool-white lamps.

Light alone does not compensate for deficiencies in the other elements of plant culture. Turning on a fluorescent light over a potted plant does not miraculously produce flowers, but sometimes it does seem that way.

SO YOU WANT A GREENHOUSE

Your first wish, no doubt, is to walk out of the living room directly into that heavenly world filled with color. I have never seen this done except in the ads for greenhouses. With careful management, you can have a pretty fine show of color at a certain season, or you can have spots of color each season of the year. The simplest way to have such a living room addition filled with color at all seasons is to keep buying blooming plants. More than likely you will take your guests into the greenhouse and apologize for the scarcity of bloom, and say that they should have seen the place last April. Few people who have never managed a greenhouse realize that it takes five or ten times more outlying greenhouse space to provide flowers for a show area the year around.

On the other hand, you may wish for a beautiful conservatory, leading from the living room or dining room, where you can sit amongst some plants in the winter and enjoy sipping tea. I'm in favor of that, but it's not the subject for discussion here.

If you are very much interested in growing plants, my recommendation is a separate greenhouse, or at least a lean-to on the garage or laundry, not an extension of the living room. A working greenhouse is a messy place even for the most immaculate worker. An important thing to think about is that you can fill a separate greenhouse with poison without killing the dog or canary. And don't think the mealy bugs, scale, slugs, and spider mites aren't waiting like vultures to ride in on each new, incoming, gift plant.

The ideal way to start, if you can afford it, is to order a nationally advertised greenhouse of aluminum and glass, and hire a builder to put it up. If you can afford that, be sure to provide a head house or potting and storage shed, automatic cooling, screens, an extension telephone, and an intercom. Don't let anybody talk you out of a good, solid cement floor throughout, with drains. You can grow just as good plants with a cement floor as with one of dirt and stone. This will not be the classical greenhouse with baby's tears bordering the walks, and many will disagree with me. However, I'd prefer to withdraw, if possible, from the war against slugs, oxalis, which is never-ending with a dirt and stone floor. Finally, insist on a lot of vents, top and bottom, to use in the spring and fall when the cooling system has been drained, or when the automatic ventilation fails because of an electric blackout.

Unfortunately, most people can't afford the kind of establishment mentioned above. As a start, I'm a strong proponent of the do-it-yourself greenhouse. One advantage of a simple and economical start is that you can find out how much time it takes to manage a greenhouse properly, and decide whether you would rather use that time to run a boat, play golf, or ski. Find out also whether your wife might rather play bridge, since it is an old rule that you should never undertake anything your wife can't carry through. Good greenhouse operation can be a full time hobby. It can demand attention at most inconvenient times. When a batch of seedlings needs watering, you may put it off for a half a day, but if you do, plan to start back at the beginning again with those seedlings.

Building a greenhouse frame of wood and covering it with plastic is not really a very difficult or expensive undertaking. I built one plastic greenhouse with a foundation and one without, and I would strongly recommend putting it on a low foundation of something like cement blocks rather than on bare ground as some plans indicate. This simple foundation can be easily converted back to lawn in case you decide that this is not your hobby. (One of my ageing acquaintances complained that it is hard to get rid of an old swimming pool or greenhouse.) What is more expensive than the plastic covered frame is benches, heater, ventilation fan, automatic controls, and service lines like water and electricity. These "accessory items" will more than likely make up over three fourths of the cost of a do-it-yourself plastic greenhouse.

Electricity provides the simplest heat for a small greenhouse, but a great many kilowatts are necessary in the coldest weather around Philadelphia. I prefer an ordinary room heater operated on propane for midwinter in a do-it-yourself structure. I must admit, however, that I have seen quite a number of cases of damage to flowers (not the plants) from propane heaters, and have had some first hand experience myself. Some kinds of flowers and flower buds are exceedingly sensitive to ethylene from incompletely burned propane (not the unburned gas). This is apparently a common and often mysterious cause of trouble, and also leads to unjustified prejudice against propane heat. With a room heater, ethylene damage can be caused by an inadequate chimney or a ventilating fan that reverses the draft in the chimney and prevents venting of the pilot







flame. Ethylene damage can also come from industrial air pollution or even from apples on the ground under a nearby tree.

A number of my friends limit their greenhouse activity by specialization, and this is a nice way to start out. For example, some have built plastic structures for growing chrysanthemums. They grow a much wider variety of big, exotic mums than is possible in unprotected beds. Only occasional heat is needed in October and November, and the operation is shut down before very severe weather comes. Others put up a plastic greenhouse for use in the spring as a glorified hot bed to start petunias, tomatoes and lettuce. A minimum heat, low labor greenhouse can be kept just above freezing for

growing camellias and tender azaleas.

Going on vacation? If so you better start training a sitter as soon as you learn how to run a greenhouse yourself. It is harder to train a sitter for your plants than for your child. If you plan to take long vacations in the winter, an attractive kind of specialization is to grow a group of orchids that I like to call "vacation orchids." They come from areas where there is a considerable period essentially without rain, such as lower Mexico, Western South America, and the foothills of the Himalayas. Many of them give showy and exciting flowers. They thrive for a period as long sometimes as two months or more without water at the roots. This rest is necessary in most cases for flowering or proper growth. All that is required during your vacation is an automatic vent which prevents too high a temperature in sunlight and auomatic heat below about 40°F.

It is hardly possible in a single greenhouse to grow a wide variety of plants well. Some specialization is, therefore, necessary. You should start out with the idea of experimenting, since your taste in plants will most likely change with experience in growing them. You may be very anxious, for example, to grow calceolarias, and then find after working a while with the seedlings that you don't like them as well as you thought.

Like serious work on any living thing, growing plants is behumbling. Even after you have had years of experience and are confident everything is under control, you have some surprises coming. Surely there are troubles and it all sounds like a lot of work, but the only difference between work and play is in the mind. To me, growing living things, whether they be flowers, goats, or babies, forms the basis for the greatest hobbies of all.

by M. M. Brubaker



AN OPPORTUNITY TO LEARN



Gardening and horticultural skills taught by professionals

How to plan and plant a vegetable and a flower garden

The theory and technique of pruning, propagation, flower arranging, house plant care, wreathmaking and lawn care

Through field trips and practical experience in growing your own vegetables and flowers

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SUMMER GARDEN WORKSHOP

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for

Boys and Girls in the Junior High age group

to be held at

THE MORRIS ARBORETUM of the University of Pennsylvania Chestnut Hill, Philadelphia

For descriptive brochure and application blank write to

The Pennsylvania Horticultural Society 325 Walnut Street Philadelphia, Pa. 19106 WA 2-4801



YOUR VEGETABLE GARDEN

The home vegetable garden offers the gourmet gardener the deep satisfaction of growing at least some of his own food; succulent vegetables of top "table" quality which cannot always be purchased at the local market. Only by growing his own can he enjoy this luxury because with the American preoccupation with size and mass distribution we have frequently bred out quality and flavor. With wise planning he can have food specialties before they are in the market or late in the season after the commercial crop is harvested.

The home gardener is not interested in the shipping or keeping qualities of a vegetable that will be served on his table within an hour after it is picked so in selecting varieties for his home garden he should try to avoid those that are recommended for market gardeners or commercial growers or those that have a short harvest season unless the seedsman also recommends them for the home garden as well.

The following varieties, some old, some new, should all give excellent results in the Delaware Valley area.

Asparagus—Mary Washington

Beans—Bush—Tendercrop, Tenderpod, Greencrop, Eastern Butterwax

Beans—Lima—Fordhook US 242

Beans—Pole—Blue Coco*

Beets—Crosby's Egyptian, Detroit Dark Red, Long Season

Broccoli—Waltham 29 (late), Spartan (early)

Brussels Sprouts—Jade Cross

Cabbage—Earliana, Vanguard II, Red Danish

Carrots—Nantes, Pioneer, Tiny Sweet Chamteny

Cauliflower—Snowball 25, Royal Purple

Corn—Spring Gold, Wonderful, Miniature

Cucumber—Challenger, Marketmore, China

E. J. B. L. A. C. L. L. C.

Eggplant—Black Magic Hybrid

Endive—Green Curled

Leeks—Swiss Special, Broad London

Lettuce—Summer Bibb, Salad Bowl, Buttercrunch, Ruby

Okra—Dwarf Green Long Pod

Onion—Ebenezer, Yellow Sweet Spanish

Parsley—Paramount, Italian Dark Green

Peas-Little Marvel, Wando, Lincoln

Peas Edible—podded—Mammoth Melting Sugar*

Pepper—Pennwonder, Fordhook

Radish—Champion, Icicle

Rhubarb—MacDonald, Valentine

Spinach—America

Squash—Zucchini Hybrid, Seneca Baby Crookneck,

Butternut

Swiss Chard—Fordhook Giant

Tomatoes—Rutgers, Moreton Hybrid, Sunray,

Red Cherry, Yellow Plum

Turnips—Purple Top, White Globe

* This variety has "strings" which must be removed before cooking. (Any cook not yet fifty years of age should ask an older cook to explain and demonstrate the technique of "stringing".)

photos: Burpee Seeds







Fishing in this tributary of the Brandywine Creek may soon be ruined if plans to locate a township sewage disposal plant upstream are approved. But citizens are speaking up through the Brandywine Valley Association for a regional plant that would save West Valley Creek and tie in with Downingtown.

SO YOU WANT TO CONSERVE

Regardless of where you live, you can do something to conserve our dwindling natural resources. Action can take several forms.

First is the do-it-yourself type.

If you live in an apartment, start with some flowers indoors or in a window box. You'll add beauty to the neighborhood and be growing something instead of destroying something. You'll be doing your bit to make up for the flowers, shrubs and trees eliminated by the new highway, shopping center, or housing development.

If you live in the suburbs and have a plot of land, plant some trees or shrubs. Instead of burning your leaves (too many gardeners still do), use them for compost or mulch. You'll be cutting down on air pollution and putting more organic matter back into the soil. If you are moving into a new home and need advice on lawn care or landscaping, see your county agricultural agent. He is usually located in the courthouse.

For the landowner with several acres or for the farmer, we suggest that you start now to develop a conservation plan for all of your land. The soil sur-

vey and land-use capability map provided by the Soil Conservation Service will give you valuable information about your soil conditions. This service is available through your local Soil and Water Conservation District. Almost all suburban Philadelphia counties have such districts.

If you have forest land, by all means use the services of the State Forester before selling your trees. He will mark the trees to be cut, tell you how many board feet of timber you have, and suggest approved buyers. It's a valuable service. Unfortunately, some forest owners don't think about calling the forester until they have sold their trees. Then they want advice on how to clean up the mess. It's a little late then. The second way to do something about conservation is to speak up for it. You can do this wherever you live.

Before speaking up, we suggest three things:

- 1. Get the facts.
- 2. Be sincere.
- 3. Be constructive.

One of the weaknesses of a democracy is that people who are against something usually speak



Contour strip cropping in the Pocopson Creek watershed saves soil and water. Nearly eighty per cent of the landowners have conservation plans for their land.

SOMETHING?

louder than those who are for it. People need to speak up for conservation. Here are some ways you can take a positive approach.

Suppose your community is looking for a site for a sanitary landfill for rubbish and garbage disposal. As soon as a site is chosen, there's a petition circulated opposing it. The petition says it will be a dump. It will attract rats and mosquitoes. There will be bad odors and smoke. It will pollute the ground water. Trucks delivering trash will litter the highway.

Sound familiar? What are the facts? They aren't hard to get. Ask some questions.

Has a soil survey been made to determine soil and rock formations? Are they satisfactory? Will the material be compacted and completely covered every day with at least a foot of earth? Does the operating plan require that all trash be hauled only in covered vehicles? Has the site been approved by local and State health officials? Are there specific rules and regulations for operating the landfill? Is there an enforcement agency? Have all the alternatives been considered?

If the answers to these questions are "yes," then hadn't you better speak up for the sanitary landfill? You can do something for conservation if you do. But you do nothing by staying at home and keeping quiet.

The same procedure applies to other conservation issues. Here are a few:

1. Filling or draining swamps or marshes. What good is a marsh? Ever try to replace one?

2. Regional water supply and sewage disposal systems. There are economies in getting together. Get the facts and encourage your local government officials to look beyond the town, township, or county line.

3. Flood plain zoning. Why should people be permitted to build on areas which are subject to periodic flooding? Does your community have a flood plain zoning ordinance? If not, why not? How much are you paying for flood protection dams, levees, and flood channels to reduce flood damages to buildings which never should have been put there in the first place?

For example, New Castle County, Delaware, has made "\$11 million worth of mistakes" in the past 20 to 40 years. It will cost that much to correct flooding problems caused by building too close to the stream, leaving little or no open space, putting in culverts that are too small, and building on the wrong types of soils.

4. Preservation of open space. Once it's filled up with roads and buildings, where do you get more of it? Do you know what a "Planned Unit Development" is? Does your municipality permit it or encourage it? One recently was voted down in West Goshen Township in Chester County. Reason? The people didn't understand it.

The third kind of conservation activity which you can do something about is the kind nobody is against. Unfortunately, too often not enough people are for it.

For example, do you belong to a conservation organization? Here are a few in the area. The Pennsylvania Horticultural Society, The Philadelphia Conservationists and several watershed associations, such as: Brandywine Valley Association; Red Clay Valley Association; Green Valleys Association; Neshaminy Valley Association; Wissahickon Valley Watershed Association, and Perkiomen Valley Association.

If you live in one of these areas, why not join? Membership dues are reasonable. And you'll be doing something to help shape the future of your valley. Ask PHS if you need the address.

You can do something about conservation. You can do a lot by simply asking questions. If you ask the right questions.

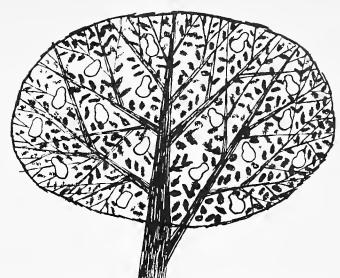


by Robert G. Struble





WHAT YOU SHOULD USE



TO SPRAY OR DUST YOUR GARDEN

With the recent government move to ban the use of DDT and other persistent chlorinated insecticides in the home garden, the question of what is both safe and effective to use for the control of pests and diseases becomes a very important one.

Basically two approaches may be used in the attempt to control the ravages of pests and diseases in the home vegetable or flower garden. In the first, one may seek to eliminate whatever pest has just been observed in the garden by applying the right kind of spray or dust material. This works if the application is made soon enough and if the diagnosis of the nature of the pest or disease is the right one. However, it is cumbersome and haphazard, and requires that several pest-control agents be kept on hand at all times. The other approach is preventive treatment, which calls for spraying or dusting on a regular schedule. On plants which are particularly pest and disease prone, such as roses, a preventive spray or dust schedule is almost mandatory.

Pests may be classified as insects (six legs), mites (eight legs), slugs and snails, and, of course, higher animals such as mice and rabbits. The diseases one has to cope with in the home garden are either bacterial, fungal, or viral in nature. An ideal preventive treatment schedule calls for the use of a combination product which will control as many of the above pest and disease factors as possible. Thus a combination for control of insects, mites and fungal and bacterial diseases all in one treatment is entirely feasible. Separate treatments are necessary for control of slugs and snails. For viral disease the only effective control is the elimination of the diseased plant from the garden.

A combination product should contain an insecticide with quick knockdown such as Malathion or pyrethrin, an insecticide with residual activity such as Sevin (carbaryl), a miticide such as Malathion or Kelthane (dicofol) and a fungicide such as captan, folpet or maneb. Dry mixtures are stable indefinitely, but spray products with water added are

stable for just a few hours.

The elimination of the chlorinated insecticides such as DDT from the array of materials available to the home gardener reduces considerably the residual period of protection that such materials provide, and the intervals between treatments will have to be shortened. In any event, it is necessary to re-treat the garden after a rainfall. As to the frequency recommended for spraying or dusting, weekly intervals are suitable for rose plantings, but for most flowers and vegetables, treatment every two weeks or after each rainfall, whichever is the shorter interval, will be sufficient.

Systemic insecticides are known which can provide effective control of quite a few pests for about three or four weeks after application. Products which combine systemic insecticides with fertilizer are available and are easy to use. They have proven useful in connection with the growing of roses and certain annual flowers. However, they should be completely banned in connection with vegetables growing inasmuch as the active ingredients are highly toxic on ingestion.

To sum up:

- 1. Combination products containing insecticides, miticides and fungicides are available for use in spraying and dusting, and provide a practical timesaving approach.
- 2. The use of a preventive schedule of regular spraying or dusting is recommended.
- 3. With the banning of DDT and other persistent chlorinated insecticides, more frequent treatment may be required. For most plants, every two weeks should be sufficient, or after a rainfall.
- 4. The home gardener should use only products commonly accepted as safe, such as:

insecticides: pyrethrin, rotenone, Malathion,

carbaryl

miticides: dicofol, Malathion, tetradifon fungicides: captan, ferbam, folpet, maneb





GARDENS

At Home—A working section of a Garden

Four Counties Garden Club Mrs. Wm. T. Moffly, III, Chairman

West Chester Garden Club Mrs. George E. DeCoursey, Chairman

Garden Club of Philadelphia Mrs. Franklin d'Olier, Jr., Chairman

---And Away. A section of a garden for a vacation home

Delaware Valley Chapter Men's Garden Club of America Mr. H. V. Hume. Chairman

Huntingdon Valley Garden Club Mrs. George R. Haines, Chairman Mrs. Chas. A. Sullivan, Jr., Co-Chairman

Chestnut Hill Garden Club Mrs. Arthur S. Roberts, Chairman

FLOWER ARRANGEMENTS

Sunday, March 15

Harmony (Carnations must predominate) Orchids in Glass Section of a Room in Miniature

Monday, March 16

Commercial Art Predominantly Roses Insecta

Tuesday, March 17

Gallery of Arts Pastellist Driftwood (Novice Class)

Wednesday, March 18

Echo Far East Yesterday

Thursday, March 19

Stained Glass
Spring Song
Objet Trouve

Friday, March 20

Wanderlust Challenge Class Kitchen Bouquet

Saturday, March 21; Sunday, March 22

Tropicana Replay Forever and a Day

ROOMS

Collector's Choice

One or more pieces of furniture featuring a flower arrangement.

Town and Country Gardeners of Audubon, Inc. Mrs. John Dick, Chairman

Random Garden Club Mrs. Armin C. Frank, Jr., Chairman

Mill Creek Valley Garden Club Mrs. James P. McGowan, Chairman

Providence Garden Club of Pa. Mrs. Frederick W. Kelly, Jr., Chairman Mrs. Charles P. Fawthorp, Jr.

Junior League Sustainers Garden Club Mrs. Paul Maloney, Chairman

Spade and Trowel Garden Club of Kennett Square Mrs. Richard J. Fisher, Chairman

The Weeders
Mrs. Matthews Williams, Chairman

The Country Gardeners Mrs. Gabriel J. Scala, Chairman

TABLES

White Tie And Tails

A table set for a formal dinner.

Old Eagle Garden Club Mrs. Rich. Schwertner, Chairman

Garden Club of Bala-Cynwyd Mrs. Reginald J. Doherty, Chairman

Bryn Mawr Spade and Trowel Garden Club Mrs. Philip C. Herr, II, Chairman

Wissahickon Garden Club Mrs. Horace C. Jones, III, Chairman

Seed and Weed Garden Club Mrs. William R. Brown, Chairman

Shawosa Garden Club Mrs. Carleton Coleman, Co-Chairman Mrs. Berton Zehner, Co-Chairman

Villanova Garden Club Mrs. William P. Eckfeldt, Chairman

Valley Garden Club Mrs. W. E. Mullestein, Chairman Herbs, collection Hyacinths Ivy or climber, trained Ivy, trained Kale (challenge) Lilies Miniature landscape or garden Narcissus Orchids (greenhouse collection) Orchid (miniature) Orchid (specimen) Pair of plants Perennial, forced Rock plant garden Standards Strawberry jar Succulent garden Terrace plants Terrarium

Saturday-Monday Sunday-Sunday Tuesday-Thursday Sunday-Sunday Friday-Sunday Sunday-Sunday Tuesday-Thursday Sunday-Sunday Saturday-Monday Tuesday-Thursday Tuesday-Thursday Tuesday-Thursday Friday-Sunday Friday-Sunday Friday-Sunday Tuesday-Thursday Sunday-Sunday Sunday-Sunday Sunday-Sunday Sunday-Sunday Sunday-Sunday

PRESSED FLOWER DESIGNS

Tulins

Window boxes

WALL PLAQUES—Designs of natural materials

HORTICULTURAL SECTION

Alpine Garden Alpine from cutting Alpine from seed Begonia 'Boweri' (novice) Begonia collection Begonia specimen Branches, forced Calendula (challenge class) **Daffodils** Ericaceous plant in bloom Espalier (woody plant) Fern specimen Flowering plants Flowering plants (hanging) Foliage plants Foliage plants (hanging) Geranium collection Geranium under 8" Gesneriad sp. Gloxinia, miniature

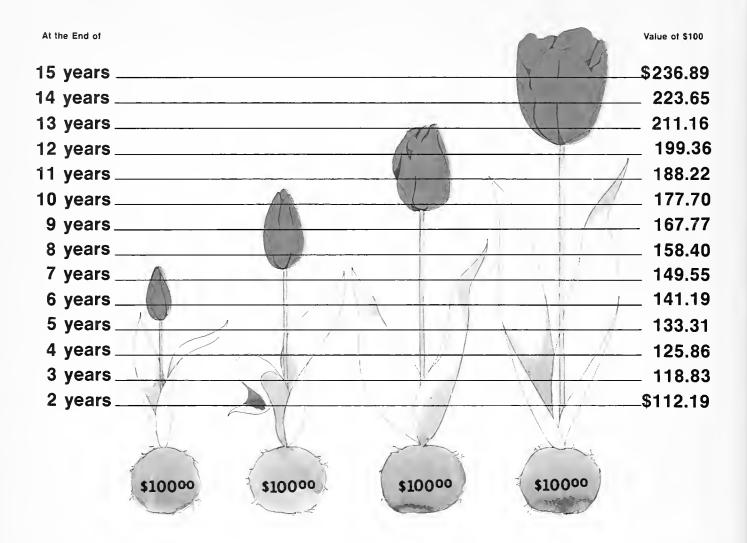
(challenge class)
Greenhouse collection

Herb in containers

Sunday-Sunday Tuesday-Thursday Saturday-Monday Friday-Sunday Tuesday-Thursday Saturday-Monday Friday-Sunday Friday-Sunday Sunday-Sunday Friday-Sunday Saturday-Monday Saturday-Monday Sunday-Sunday Sunday-Sunday Sunday-Sunday Sunday-Sunday Friday-Sunday Saturday-Monday Tuesday-Thursday Friday-Sunday

Tuesday-Sunday Saturday-Monday





SO, SOW. (and reap)

This chart shows you how Girard's 5.75% tax-deferred Growth Bonds grow. Plant any amount, from \$25 up. Let it grow to any maturity date from two to fifteen years. It's insured up to \$20,000 by FDIC.

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beautiful bouquet on the day you set. \$100 will grow to \$125.86 in four years. \$177.70 in ten years. \$236.89 in fifteen years. The interest is tax-deferred. Guaranteed by Girard. And compounded daily. (The effective interest rate is 5.92% after one year.) We also offer 5.75% Income Bonds, beginning at \$1,000.

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AMERICA'S HORTICULTURAL UMBRELLA

Over 900 horticultural leaders came to Philadelphia for the information-packed 24th annual American Horticultural Congress in September of 1969. The Pennsylvania Horticultural Society, host for the impressive gathering, is one of nearly 200 American Horticultural Society member organizations. They range from national garden federations through specialized plant societies and professional groups to local garden clubs.

AHS memberships also include thousands of individuals who realize the importance of a single uniting society to coordinate and further the interests of all American horticulture, on national and international levels. AHS reaches for the latest knowledge, and does for its members what they can-

not do alone.

A computerized Plant Records Center is AHS's latest service. The project has already produced a data bank of horticultural information about Longwood Gardens' vast plant collection, on tape for instant retrieval. Other AHS projects—the Society's revitalized publications and encyclopedic handbooks—recognition of outstanding horticultural achievements including films—garden symposia at Williamsburg and now at Dearborn Village—seed exchange and distribution, and the many other AHS membership services—continue and expand.

Every gardener, amateur or professional, has a role and a responsibility for the progress of horti-

culture in America. Interest in and support of AHS increases its effectiveness.

The American Horticultural Society

2401 Calvert Street N.W. Washington, D.C. 20008 Annual dues for individuals, \$15.00 Annual dues for regional organizations, \$20.00

HORTICULTURAL AND GARDENING SOCIETIES IN THE DELAWARE VALLEY

Membership in these societies is open to all. They hold meetings and shows throughout the year, giving members the opportunity to discuss common interests, share information, exhibit their handiwork and enjoy the exhibits staged by others.

Burholme Horticultural Society

George F. Koehler, President 208 Levick Street Philadelphia, Pa. 19111 Annual dues \$2.00

The Delaware Valley Garden Center

Mrs. John M. Balbirnie, President 172 Walker Road Wayne, Pa. 19087 Annual dues \$5.00

The Germantown Horticultural Society

Mrs. Henry Stephany, Corresponding Secretary 521 E. Conarroe, Philadelphia, Pa. 19128 Annual dues \$4.00

Horticultural Society of South Jersey

Paul J. Conlin, Corresponding Secretary 308 Beechwood Avenue Haddonfield, N.J. 08033 Annual dues \$2.00

Neighborhood Garden Association of Philadelphia, Inc.

Elizabeth J. Forrester, Executive Director 3723 Mt. Vernon Street Philadelphia, Pa. 19104 Annual dues \$1.00

The Pennsylvania Horticultural Society

Ernesta D. Ballard, Director 325 Walnut Street, Philadelphia, Pa. 19106 Annual dues \$12.50

Trevose Horticultural Society

Meredith Davis, President 605 Belmont Avenue, Southampton, Pa. 18966 Annual dues \$3.00

GARDEN CLUBS IN THE DELAWARE VALLEY

There are approximately 130 garden clubs in the Delaware Valley. More than 40 of these clubs are active participants in the 1970 Spring Flower Show. Their members are exhibiting in individual competitive classes and in the garden, room and table classes.

Information about Garden Clubs is available from the office of the Pennsylvania Horticultural

Society, WA 2-4801.



PLANT SOCIETIES

Most gardeners enjoy becoming experts in a particular area of horticulture, or in the culture and development of a single genus of plants. These specialists have formed at least 40 national organizations which afford their members access to comprehensive

knowledge in a single field of concentration. Thirty-five national organizations are listed here. 17 have one or more local branches in the Delaware

Valley. They meet regularly and welcome new

members who share their special interest.

African Violet Society of America, Inc.

Mrs. Edward A. Nelson. Secretary 603 E. Essex Avenue St. Louis, Mo. 63122 Membership \$6,00, includes 5 magazines yearly

African Violet Society of Philadelphia Mrs. H. Nicholas Hansen Water Tower Recreation Center Hartwell & Ardleigh Streets Philadelphia, Pa. 19118

African Violet Society of Springfield Mrs. M. C. Hinebaugh, Jr. 411 Lancaster Ave. Haverford, Pa. 19041

Crusader African Violet Society Mrs. Marjorie J. Hawley 1028 Rees Avenue Bryn Mawr, Pa. 19010

Philadelphia Center City African Violet Society Mrs. Dorothy Sutton 8023 Terry Street Philadelphia, Pa. 19136

American Begonia Society, Inc.

Mrs. E. W. Benell, Membership Secretary 10331 S. Colima Road Whittier, Cal. 90604 Membership \$4.00 per year, includes monthly publication

Elsa Fort Branch Miss Lola Price, Secretary 628 Beech Avenue Laurel Springs, N.J. 08021

William Penn Branch Mrs. Ernest C. Drew, Pres. 635 Moreno Road Narberth, Pa. 19072

The American Bonsai Society

Bedford, N.Y. 10506 Membership: \$5.00 per year, includes quarterly Journal

The Pennsylvania Bonsai Society Mrs. John W. Hess 135 Woodside Road Ardmore, Pa. 19003

Brandywine Bonsai Society Mrs. J. Froning, Pres. Box 391—R.D. 3 Kennett Square, Pa. 19348

Community Arts Center Bonsai Society Mrs. F. A. Patman 334 Michigan Ave. Swarthmore, Pa. 19081

The American Boxwood Society

Box 85 Boyce, Virginia 22620 Membership \$3.00 per year, includes quarterly bulletin

The American Camellia Society

Joseph H. Pyron, Executive Secretary Box 212 Fort Valley, Georgia 31030 Membership \$7.50 per year, includes Yearbook and four journals

The American Daffodil Society, Inc.

George S. Lee, Jr., Executive Director 89 Chichester Road New Canaan, Connecticut 06840 Membership \$5.00 per year, includes quarterly journal

Philadelphia Area Daffodil Society Mrs. Francis L. Harrigan, Secretary 441 Maplewood Avenue Springfield, Del. Co., Pa. 19064

Delaware Daffodil Society Mrs. Herman P. Madsen Orchard Hill Farm R.D. 2, Newark, Del. 19711

The American Dahlia Society, Inc.

Mrs. Caroline Mever 92-21 West Delaware Drive Mystic Islands Tuckerton, New Jersey 08087 Membership \$5.00 per year, includes quarterly bulletin

Greater Philadelphia Dahlia Society Stanley Johnson, President Pennypack, 406 Franklin Avenue Cheltenham, Pa. 19012

American Fern Society

LeRoy K. Henry, Treasurer Division of Plants, Carnegie Museum Pittsburgh, Pa. 15213 Membership \$5.00 per year. includes quarterly journal

The American Gesneria Society

Worldway Postal Center Box 91192 Los Angeles, California 90009 Membership \$4.00 per year includes bi-monthly bulletin

The American Gloxinia and Gesneriad Society, Inc.

Mrs. Diantha B. Buell, Secretary Dept. P.F.S.O. Eastford, Conn. 06242 Membership \$4.00 per year, includes bi-monthly magazine

Delaware Valley Chapter Maurice J. O'Neill 405 Glendale Drive Somerdale, N.J. 08083

The American Hemerocallis Society

Mrs. Lewis B. Wheeler, Jr., Secretary Box 28786 Memphis, Tenn. 38128 Membership \$5.00 per year, includes quarterly journal

Philadelphia Area Daylily Club Mary Cherry McCracken, Treas. 303 West Dutton Mill Road Chester, Pa. 19014

The American Hibiscus Society

James E. Monroe Post Office Box 98 Eagle Lake, Florida 33839 Membership \$5.00 per year, includes quarterly publication

The American Hosta Society

Mrs. Glen Fisher 4392 W. 20th Street Road Oshkosh, Wisconsin 54901

The American Iris Society

Clifford W. Benson, Executive Secretary 2315 Tower Grove Avenue St. Louis, Missouri 63110 Membership \$5.00 per year, includes quarterly bulletin Delaware Valley Iris Society Albert E. Murray, Pres. 70 Kraft Lane, Kenwood Levittown, Pa. 19053

he American Magnolia Society

Philip J. Savage, Jr., Secretary-Treasurer 2150 Woodward Avenue Bloomfield Hills, Mich. 48013 Membership \$4.00 per year, includes occasional newsletter

he American Orchid Society, Inc.

Botanical Museum of Harvard University Cambridge, Mass. 02138 Membership \$10.00 per year, includes monthly bulletin

Delaware Orchid Society Mrs. Helen B. Money 403 S. Broad St. Middletown, Del. 19709

The Greater Philadelphia Orchid Society Sidney Rosenblatt, Pres. 1806 Earlington Road Havertown, Pa. 19009

The Southeastern Pennsylvania Orchid Society Dr. Howard Page Wood, Pres. 842 Buck Lane Haverford, Pa. 19041

merican Penstemon Society

Mrs. Merle Emerson Post Office Box 64 Somersworth, N. H. 03878 Membership \$2.00, includes annual bulletin

American Peony Society

107½ W. Main Street Van Wert, Ohio 45891 Membership \$7.50 per year, includes quarterly bulletin

The American Plant Life Society & The American Amaryllis Society

Dr. Thomas H. Whitaker Executive Secretary Box 150 La Jolla, Calif. 92037 Membership \$5.00 per year, includes Amaryllis Yearbook

he American Primrose Society

Mrs. Lawrence G. Tait, Treas. 14015 - 84th Avenue N.E. Bothell, Washington 98011 Membership \$5.00 per year, includes quarterly journal

merican Rhododendron Society

Mrs. William Curtis, Executive Secretary 24450 SW Grahams Ferry Road Sherwood, Oregon 97140 Membership \$7.50 per year, includes quarterly bulletin

The Valley Forge Chapter Charles W. Herbert, President Phoenixville, Pa. 19460 Philadelphia Chapter Mrs. Marie Tietjens 1064 Wagon Road Blue Bell, Pa. 19422

American Rock Garden Society

Richard W. Redfield Box 26 Closter, New Jersey 07624 Membership \$5.00 per year, includes quarterly bulletin

Delaware Valley Region Lee M. Raden, Chairman Chester Springs, Pa. 19425

American Rose Society

4048 Roselea Place Columbus, Ohio 43214 Membership \$10.50 per year, includes monthly magazine

Delaware County Rose Society Joseph A. Mammino 537 W. Springfield Road Springfield, Pa. 19064

Philadelphia Rose Society John A. Borneman, Jr. 1208 Amosland Road Prospect Park, Pa. 19076

West Jersey Rose Society Samuel H. Olson 613 Billings Avenue Paulsboro, New Jersey 08066

Bromeliad Society

Jeanne Woodbury 1811 Edgecliffe Drive Los Angeles, Cal. 90026 Membership \$5.00 per year, includes six bulletins

Cactus and Succulent Society of America, Inc.

Box 167 Reseda, Cal. 91335 Membership \$6.00 per year, includes bi-monthly journal

Philadelphia Cactus & Succulent Society James G. Early, Secretary 6901 Muncaster Mill Road Derwood, Md. 20855

The Gourd Society of America, Inc.

Elmwood, Massachusetts 02337 Membership \$2.50 a year, includes three bulletins

The Holly Society of America, Inc.

Bluett C. Green, Jr. P.O. Box 8445 Baltimore, Maryland 21234 Membership \$5.00 per year, includes newsletter and proceedings of meetings

Central Pennsylvania Chapter Dr. S. O. Curry 2324 Market Street Camp Hill, Pa. 17011

Mt. Holly Chapter Earl H. Robinson, President Medford Nursery Eayrestown, Red Lion Road R.D. #1 Medford, New Jersey 08555

Ikebana International

Philadelphia Chapter
Mrs. Kendrick Muckle
6 Craig Lane
Haverford, Pa. 19041
Membership \$10.00 per year,
includes I.I. magazine
from Tokyo

The Indoor Light Gardening Society of America, Inc.

Mrs. Fred D. Peden, Secretary 4 Wildwood Road Greenville, S. C. 29607 Membership \$4.00 per year, includes bi-monthly bulletin

International Geranium Society

1413 Shoreline Drive Santa Barbara, Cal. 93105 Membership \$4.00 per year, includes quarterly magazine

National Chrysanthemum Society, Inc.

Mrs. George S. Briggs, Secretary 8504 Laverne Drive Adelphi, Maryland 20783 Membership \$5.00 per year, includes bi-monthly bulletin

Delaware Valley Chrysanthemum Society Ralph B. Parks, Pres. 821 Meredith Drive Media, Pa. 19063

North American Fruit Explorers

Robert Kurle 87th and Madison Streets Hinsdale, III. 60521 Membership \$2.00 per year, includes quarterly bulletin

North American Gladiolus Council

H. Edward Frederick 234 South Street South Elgin, Illinois 60177 Membership \$4.00 per year, includes quarterly bulletin

The North American Lily Society, Inc.

Fred M. Abbey North Ferrisburg, Vt. 05473 Membership \$7.50 per year, includes quarterly bulletin & Yearbook

Mid-Atlantic Regional Lily Group Lloyd Allison, President Box 138H Sparta, New Jersey 07871

Saintpaulia International

Post Office Box 10604 Knoxville, Tennessee 37919 Membership \$4.00 per year, includes bi-monthly magazine

The Palm Society

Mrs. Lucita H. Wait 7229 S.W. 54th Avenue Miami, Florida 33143 Membership \$10.00 per year, includes quarterly journal







CONSIDER

A CAREER

THE SCOPE OF HORTICULTURE

Horticulture today is a science, an art, a profession, a business, an industry, a vocation, an avocation, a way of life involving millions of people! The word horticulture means "garden culture," and is defined as "the science and art of growing fruits, tree nuts, vegetables, flowers, and ornamental plants." As practiced today, however, as a profession, in business, or as an avocation or hobby, horticulture involves or relates to some phase of the growing or utilization of these plants or their products. Horticulture is thus associated with a nutritious and delectable diet, family life, recreation, and the beautification of homes, communities, urban areas, parks, highways, and other areas.

YOUR PLACE IN HORTICULTURE

Whether you would like to spend your life working in a laboratory, out-of-doors, or at a desk, your place can be in horticulture. For example, if you like science, particularly the biological and physical sciences, you can become a horticultural scientist and have a research or teaching career relating to the growth, development, physiology, genetics and breeding of economic plants such as fruit and nut crops, vegetable crops, flowers, shrubs, shade trees, and lawn grasses. If you like the business world, you can become a producer, handler, processor, wholesaler, retailer, or advertiser of horticultural crops and products. Or, if you have artistic talents and interests, you can become a professional designer or landscape architect. These are only a few of the many choices available to you if you select horticulture as a career.

ORNAMENTAL AND LANDSCAPE HORTICULTURE—the science and practice of propagating, growing, maintaining, or marketing shrubs, trees, and lawn or turf grasses and their creative use in landscaping.

FLORICULTURE—the science and practice of growing, harvesting, handling, design, use, and marketing of greenhouse and outdoor grown ornamental and flowering plants (annuals and perennials) as cut flowers, potted plants, and bedding plants.

POMOLOGY—the science and practice of growing, harvesting, handling, storing, processing, and marketing of tree fruits, small fruits (berries, grapes, etc.) and tree nuts.

OLERICULTURE—the science and practice of growing, harvesting, handling, storing, processing, and marketing of field grown and greenhouse vegetables.

POSTHARVEST HORTICULTURE—the physiological, biochemical, and quality-control aspects of handling, storing, transporting, processing, and marketing of horticultural products after harvest.









ORNAMENTAL HORTICULTURE

IN HORTICULTURE



Teaching and extension: With interest in horticulture increasing at all levels, as a profession, in business and industry, and as an avocation or hobby, the need for qualified teachers is increasing steadily at public and private universities, colleges, and technical institutes, and at many high schools. And, beyond the "clasroom" itself, more extension service specialists and county agricultural agents with adequate training in horticulture are needed to assist and encourage producers, handlers, and processors to adopt improved practices; also to assist home owners and amateurs with up-to-date horticultural information.

Communications: Work as a garden writer or horticultural editor for magazines, newspapers, radio, and television is another method of "teaching" that is becoming increasingly important and rewarding for men and women trained in horticulture.

A REWARDING PROFESSION

Good salary: There is no "ceiling" for most horticultural positions.

Interesting work: Whether you like "desk" work, "outdoor" work, or working with "people," you can find a creative and rewarding career in horticulture.

Opportunity for service: Horticulture offers you an excellent opportunity to help people, both producers and consumers, and to help make the world a better place in which to live and work—through improved foods and more attractive surroundings.

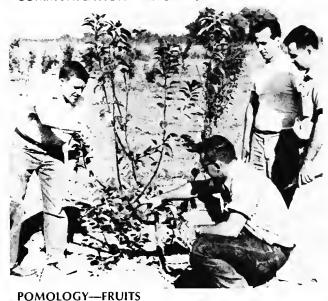
MAKE YOUR DECISION NOW

The value of horticultural products in the United States exceeds 2.6 billion dollars annually. The handling, processing, and merchandizing of these products embraces an industry valued at about 16 billion dollars per year. Job opportunities far outnumber available trained personnel. There is a place in horticulture for you, but you must decide whether or not you want that place.

- a) **Study the situation:** If you feel that you cannot afford college, write to several colleges for information on financing plans, scholarships, loan funds, and work-study programs; also get local advice on financing your study.
- b) Collect information: What are your interests? In which subjects are you most proficient? Write to several colleges and universities for information on courses required in various curricula and determine which of these best fits your own abilities and interests. Also confer with your high school guidance counselor.
- c) **Study alternatives:** What type of work do you enjoy most? What kinds of training do colleges offer that are attractive to you? The answers to these questions will guide you toward the occupation in which you will be happiest and most successful.
- d) **Take action:** Start now by writing to the department or departments you may be considering at one or more colleges or universities.



COMMUNICATION—TEACHING





ARBORICULTURE—TREES

OPPORTUNITIES FOR HORTICULTURAL AND GARDENING EDUCATION AND TRAINING IN THE DELAWARE VALLEY

HIGH SCHOOLS

AGRICULTURAL—VOCATIONAL HIGH SCHOOLS. All these schools offer occasional day or evening classes for adults.

Central Chester Co. A.V.T.S. Coatesville, Pa. 19320

Lower Bucks Co. A.V.T.S. Wistar Rd. Fairless Hills, Pa. 19030

Middle Bucks Co. A.V.T.S. P.O. Box 317 Old York Road Jamison, Pa. 18929 Western Montgomery Co. A.V.T.S. Limerick, Pa. 19468

Oxford Area Vocational School Oxford, Pa. 19363

Upper Bucks Co. A.V.T.S. Perkasie, Pa. 18944

Eastern Montgomery Co. A.V.T.S. Willow Grove, Pa. 19090

Camden County Vocational School Browning Road Merchantville, N. J. 08109

Cherry Hill High School Chapel Avenue Cherry Hill, N.J. 08034 Haddonfield High School Kings Highway Haddonfield, N.J. 08033

Newark Senior High School East Delaware Avenue Newark, Del. 19711

Kent County VoTech Center Box 97 Woodside, Delaware 19980

The SAUL HIGH SCHOOL offers a comprehensive 4 year course in Horticulture and encourages its graduates to continue their education in this field. The school also offers occasional courses for adults.

Walter Biddle Saul High School of Agriculture and Horticulture Henry Avenue Philadelphia, Pa. 19128

INSTITUTIONS OFFERING COURSES, LECTURES, CLINICS AND SPECIAL PROGRAMS FOR ADULTS

Morris Arboretum 9414 Meadowbrook Avenue Philadelphia, Pa. 19118

Arboretum of the Barnes Foundation Merion Station, Pa. 19066

Arthur Hoyt Scott Horticultural Foundation Swarthmore College Swarthmore, Pa. 19060 John J. Tyler Arboretum Forge & Painter Roads Lima, Pa. 19060

Delaware Valley Garden Center of the Main Line 582 Upper Gulph Road Strafford, Pa. 19087 Longwood Gardens Department of Education Kennett Square, Pa. 19348

Pennsylvania Horticultural Society 325 Walnut Street Philadelphia, Pa. 19106 WHYY TV Garden Club Channel 12 Fridays 7:30 p.m. Sundays 3:30 p.m.

The Trees Clerk of Faculty Lyndell, Pa. 19354

ACADEMIC AND TECHNICAL STUDY, FULL TIME, FOR NURSERYMEN, TEACHERS-in-TRAINING, GARDEN TECHNICIANS AND HORTICULTURISTS TO BE

† 2 year technical program.

4 year degree course.

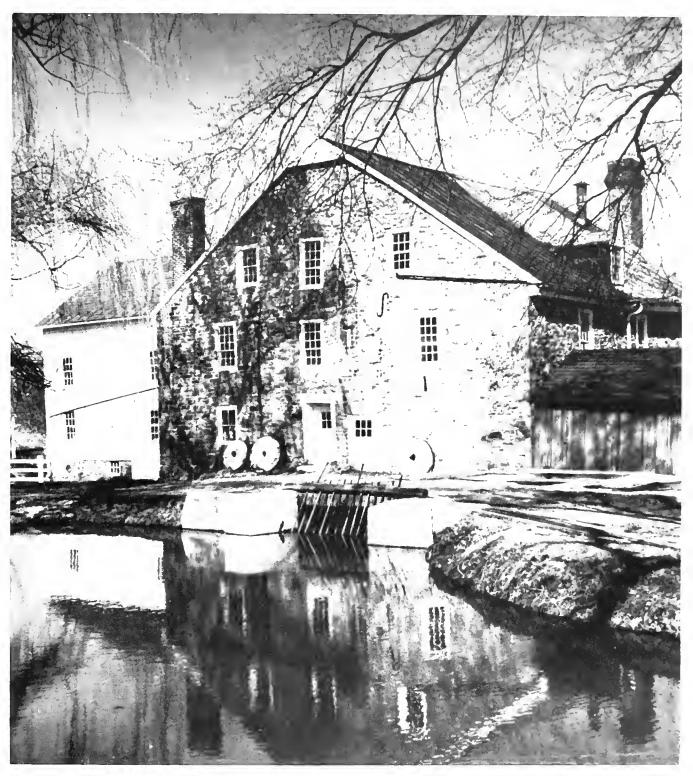
* Short courses offered.

- † © Pennsylvania State University College of Agriculture University Park, Pa. 16802
- † © University of Maryland Department of Horticulture College Park, Md. 20740
- College of Agriculture and Environmental Science Rutgers, The State University New Brunswick, N.J. 08903
- Williamsport Area Community College 1005 W. 3rd St. Williamsport, Pa. 17701
- State College of New York College of Agriculture at Cornell University Ithaca, N.Y. 14550
 - † State University, Agricultural and Technical Institute Director of Admissions Farmingdale, N.Y. 11735
- * † Sandhills Community College Box 1379
 Southern Pines, N.C. 28387
- *† College of Agricultural Science University of Delaware Newark, Del. 19711
 - New York Botanical Garden Bronx Park New York, N.Y. 10458
 - * Dean-Traut School of Floristry, Inc. 7th Avenue & 31st Street New York, N.Y. 10001
- † Du Page Horticultural School, Inc. Box 342 West Chicago, III. 60185
- Temple University Ambler Campus Meetinghouse Road Ambler, Pa. 19002
- Delaware Valley College of Science and Agriculture Route 202 & New Britain Rd. Doylestown, Pa. 18901 (Men only)

CORRESPONDENCE COURSES IN VARIOUS PHASES OF HORTICULTURE

Ontario Agriculture College Correspondence Course Office Room 100, University of Guelph Guelph, Ontario, Canada Lifetime Career Schools 2251 Barry Avenue Los Angeles, Calif. 90064

American Landscape School 4040 - 42nd Street Des Moines, Iowa 50310 National Garden Bureau 708 West Long Lake Road Bloomfield Hills, Michigan 48013 (Booklet of projects) Pennsylvania State University College of Agriculture Extension Service University Park, Pa. 16802



Southeast Pennsylvania isn't just the Liberty Bell, the Philadelphia Orchestra, the Museum of Art, the Bucks County Playhouse, the Main Line, the Army-Navy Game and the hub of the great Eastern research, talent and industrial belt.



A.I.D.

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WRITE TO THE PENNSYLVANIA EASTERN DISTRICT CHAPTER OF THE AMERICAN INSTITUTE OF INTERIOR DESIGNERS FOR A MEMBERSHIP LIST. SEND A SELF ADDRESSED STAMPED ENVELOPE TO BOX 163, CHADDS FORD, PENNA. 19317.

CALLING ALL GARDENERS HELP KEEP AMERICA GREEN

By knowing about the art and technique of gardening, you can contribute much toward solving some of the staggering problems of today's environment.

The Pennsylvania Horticultural Society offers you many opportunities to broaden your knowledge and enjoyment. It presents tours, clinics, lectures, exhibits, consultations, subscriptions to PHS NEWS and HORTICULTURE magazine, and FREE tickets to the Philadelphia Spring Flower Show.

Use the coupon below to join the oldest—and most active—horticultural society in the country.

THE PENNSYLVANIA HORTICULTURAL SOCIETY

325 Walnut Street Independence National Historical Park Philadelphia, Pa. 19106 WAlnut 2-4801





Please send me information about the Pennsylvania Horticultural Society.

Name_____Address_____

City_____Zip Code_____

Individual \$12.50 Family \$17.00

"Horticulture Wants You"

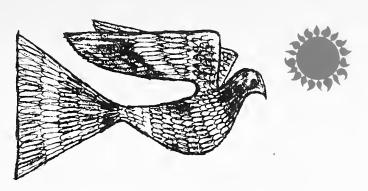


PENNOCK

1514 CHESTNUT STREET Philadelphia, Pa. 19102

originality in Wedding and Party Decorations





PUBLIC GARDENS IN AND NEAR PHILADELPHIA

Philadelphia enjoys a reputation of being one of the great horticultural centers of the country. It has many fine gardens which are open to the public.

Listed herewith is a directory of botanic gardens, arboretums and similar establishments all worth seeing.

AMBLER CAMPUS OF TEMPLE UNIVERSITY

Meetinghouse Road, Ambler, Pa.

Large herbaceous borders, collections of woody plants, wildflowers.

THE ARTHUR HOYT SCOTT HORTICULTURAL FOUNDATION OF SWARTHMORE COLLEGE

Magnolias, flowering cherries, crabapples, lilacs, hawthornes, Dexter hybrid rhododendrons, daffodils, tree peonies.

HAVERFORD COLLEGE CAMPUS

Lancaster Avenue, Haverford, Pa.

140 different specimens of trees on the 216 acre campus.

AZALEA GARDEN, FAIRMOUNT PARK

East River and Aquarium Drives

Four acres containing over 2000 azaleas in addition to many rhododendrons, dogwoods and spring-flowering bulbs.

BARTRAM'S GARDENS

54th and Elmwood Ave. (on the Schuylkill), Phila. America's first botanic garden, established by John Bartram (1699-1777). Original house and barn. Plants and trees of the kind planted by Bartram and his son, William. Admission charge to house, 25¢.

BOWMAN'S HILL WILDFLOWER PRESERVE

Washington's Crossing State Park, Pa.

1,000 species of native Pennsylvania plants, along twelve marked trails. Bird Banding station.

INDEPENDENCE NATIONAL HISTORICAL PARK

Philadelphia

18th Century gardens at 4th and 3rd on Walnut; Magnolia garden at 4th and Locust; Independence Mall.

JAPANESE GARDEN AND HOUSE

Fairmount Park

Lake, rocks, oriental plants, enclosed by Japanese fencing. Admission charge 25¢.

LONGWOOD GARDENS

Kennett Square, Pa.

Extensive formal gardens, rock garden, water lilies, special plant collections, year-round conservatory displays.

THE MORRIS ARBORETUM OF THE UNIVERSITY OF PENNSYLVANIA

Chestnut Hill, Philadelphia

Mature specimens of temperate tree species, evergreens, oaks, hollies, drug plants, fernery, rose garden.

SWISS PINES PARK

Charlestown Road, Valley Forge

Japanese and Polynesian gardens, garden of native ferns and plants; rose, herb and heather gardens. Nominal admission.

TINICUM WILD LIFE PRESERVE

86 Lyones Avenue, Philadelphia

Swamp and marshland where some 235 different species of birds have been recorded.

JOHN J. TYLER ARBORETUM

Lima, Pa.

Century old specimens of Sequoia gigantea, Cedrus libani, Picea orientalis, and other trees; garden for the blind; "Pink Hill"—a serpentine barren covered with moss phlox in May; azaleas.

WINTERTHUR

Route 52, Wilmington, Delaware

The Winterthur Gardens of Mr. and Mrs. Henry Francis du Pont cover 40 acres. Naturalized plantings of spring flowers and shrubs. Azaleas —over 330 species and varieties. Open April through June.



FLOWER SHOW EXHIBITS

NURSERY AND COMMERCIAL GREENHOUSE EXHIBITORS

County Line Landscape Nursery Herbert Bieberfeld Harleysville, Pa. "Brookside Walk"

Hansen Ground Covers Roland Hansen Narberth, Pa. "Let's Pretend"

Judd's Hollylan Nurseries William C. Judd Pitman, N.J. "My Glen"

E. Muehlmatt and Sons Theodore D. Muehlmatt Springfield, Pa. "Mid-Summer in Your Urban Garden"

Rose Valley Nurseries
L. Ben Palmer
Media, Pa.
"A Corner of Your Garden"

Royers Nurseries and Greenhouses C. R. Royer, Jr. Doylestown, Pa. "A Peaceful Hideaway"

Snipes Landscape Nursery Bradshaw Snipes Morrisville, Pa. "Refreshing Spring"

Star Roses Richard J. Hutton West Grove, Pa. "You and Your Rose Garden"

J. Franklin Styer Nurseries, Inc. Roland Taylor Concordville, Pa. "A Garden in Kyoto"

Vick's Wildgardens, Inc. Albert F. W. Vick, Jr. Gladwyne, Pa. "Your Garden in the Woods"

Whitemarsh Landscapes, Inc.
James R. Simmons
Plymouth Meeting, Pa.
"A Garden of Casual Elegance"
Whitemarsh Maintenance and
Commercial Business Interiors
Edmond A. Grant
Bernard L. Spektor
Plymouth Meeting, Pa.
"A Garden Court Office Plaza"

EDUCATIONAL EXHIBITS

Pennsylvania Horticultural Society Automated Gardening Vernon Johnston, Chairman

Delaware Valley College of Science and Agriculture Frank W. Grau, Chairman "Apartment Gardening"

Friend's Hospital Richard Draper "Garden Therapy"

International Shade Tree Conference, Pennsylvania Delaware Chapter Joseph L. Hayden "American Elm—Dutch Elm Disease"

McFarland Landscape Services, Inc. Paul P. McFarland, President "Turf Education"

Pennsylvania State University Prof. James K. Rathmell, Jr. "Annual Flowers—The All American Winner"

Philadelphia Area Judges Council— Garden Club Federation of Pa. Mrs. S. N. Van Trump, Chairman "Expression 1970—Arrangements for Today"

Philadelphia Fire Department Lieutenant John O'Rourke "Flowers and Fire Prevention"

Pennsylvania Nurserymen's Association Lester Freeland, President "Horticulture Wants You"

The Potting Shed
Donald M. Lester
"Indoor Gardening and You"

Temple University of the Commonwealth System of Higher Education George Manaker, Chairman "Ground Covers for Difficult Areas"

Walter Biddle Saul High School of Agricultural Sciences Donald J. Chattin, Chairman "Education in Agriculture"

Western Montgomery County Area Vocational-Technical School Robert G. Mutschler "School Horticulture Department Exhibit"

WHYY/Roy Kersey "TV Garden Club"

SPECIAL EXHIBITS

Acme Markets, Inc. Samuel A. Gould, Chairman "You Never had it so Fresh"

American Society of Landscape Architects, Philadelphia Chapter Marvin Adleman, Chairman

Ikebana International, Philadelphia Chapter Mrs. W. Andrew Wright, Chairman "The Quiet Place"

Neighborhood Garden Association of Philadelphia Mrs. Shepley Evans, President "A Backyard Garden for YOU"

Pennsylvania Department of Agriculture Thomas Imswiler, Chairman "The Gypsy Moth"

Pennsylvania Roadside Council, Inc. in cooperation with SEPTA Mrs. Cyril G. Fox, President "THIS or THIS?"

Pennsylvania Society for Prevention of Cruelty to Animals Mrs. Eloise Danenhower, Chairman "A Saint Francis Garden"

The Philadelphia Museum of Art "Garden Sculpture from the Ingersoll Collection"

1970 Show Committee Douglass K. Leighton, Chairman "Terrace Gardens"

Three Springs Fisheries C. B. Thomas, President Lilypons, Maryland "Water Lily Garden"

USDA Agricultural Research David M. Granahan Washington, D.C. "Home Planting by Design"

Poly-En Gardens Mrs. Polly Fairman, Chairman "Your Japanese Garden"

PLANT SOCIETY EXHIBITS

African Violet Society of Philadelphia James B. Smith, Chairman "Violets in the Home"

American Gloxinia Society, Delaware Valley Chapter Maurice J. O'Neill, Chairman "Nature's Masterpiece"

American Holly Society, Mount Holly Chapter Donald F. Householder, Chairman "A Garden of Holly" American Rhododendron Society, Philadelphia Chapter Alfred S. Martin, Chairman "Woodland Rhododendron Plant"

American Rock Garden Society, Delaware Valley Region Karl Grieshaber, Chairman "Alpines of the World"

Delaware Valley Chrysanthemum Society Wilbur G. Beck, Chairman "A Chrysanthemum Welcome"

Middle Atlantic Regional Lily Group John G. Eddy, Chairman "Contemporary Lilies in an Old Asiatic Setting"

Pennsylvania Bonsai Society F. L. Ballard, Chairman "Pennsylvania Bonsai"

Philadelphia Cactus and Succulent Society Mrs. John M. Fogg, Jr., Chairman "An Indoor Collection of Cactus and Succulents"

Philadelphia Rose Society John A. Borneman, Jr., Chairman "You Too Can Grow Roses"

Southeastern Pennsylvania Orchid Society Dr. Stephen Feairheller, Exhibit Chairman "Orchids in Your Garden"

FLORAL EXHIBITS

Allied Florists of Greater Philadelphia, Inc. Thomas Jamison, Executive Secretary Staged by C. F. Kremp and Sons

Burpee Marigold Garden W. Atlee Burpee Company

Florists' Transworld Delivery Association John Albrecht, Exhibit Chairman Staged by Albrecht's Flower Shops

Ranunculus—"An Island of Color" Andrew R. Kennedy, Inc. New York, N.Y.

Roses, Inc. Joseph diCicco, Chairman Staged by George Robertson and Sons

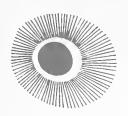
PRIVATE EXHIBITORS

Richard L. Seifert Orchids

PRIVATE GROWERS

Mr. & Mrs. F. Eugene Dixon, Jr. William H. Weber, gardener

Mr. George D. Widener William H. Weber, Jr., gardener



AWARDS PRESENTED AT THE 1970 SPRING FLOWER SHOW

SPECIAL AWARDS

GOVERNOR'S TROPHY for the most outstanding exhibit in the show.

MAYOR'S TROPHY for the most beautiful exhibit in the show.

THE FLOWER SHOW TROPHY OF THE PENNSYLVANIA HORTICULTURAL SOCIETY for an exhibit of special merit which stimulates an interest in horticulture.

FLOWER SHOW AWARD OF THE PENNSYLVANIA HORTICULTURAL SOCIETY for originality in design, selection, and use of plant material.

FLOWER SHOW AWARD OF THE PENNSYLVANIA HORTICULTURAL SOCIETY for an exhibit of outstanding educational value.

THE GOLD, SILVER AND BRONZE CERTIFICATES OF THE PENNSYLVANIA HORTICULTURAL SOCIETY will be presented to exhibits of exceptional merit.

SPECIAL AWARD RIBBONS OF THE PENNSYLVANIA HORTICULTURAL SOCIETY for exhibits of special merit.

AWARDS OF APPRECIATION OF THE PENNSYLVANIA HORTICULTURAL SOCIETY. THE BULKLEY MEDAL OF THE GARDEN CLUB OF AMERICA to an exhibit of special merit and/or educational value.

THE SPECIAL ACHIEVEMENT AWARD OF THE GARDEN CLUB FEDERATION OF PENNSYLVANIA awarded, if merited, to an exhibit of unusual excellence in Conservation, Education and Horticulture.

GOLD MEDAL CERTIFICATE OF THE CHICAGO HORTICULTURAL SOCIETY for the outstanding Plant Society Exhibit.

GARDEN AND NURSERY AWARDS

THE PHILADELPHIA FLOWER SHOW, INC. SILVER TROPHY for the most distinctive garden in the show. (Professional)

THE PHILADELPHIA FLOWER SHOW, INC. SILVER TROPHY for the most distinctive garden in the show.

(Amateur)

THE PENNSYLVANIA NURSERYMEN'S ASSOCIATION TROPHY to the amateur garden showing the most effective use of plant material.

GOLD MEDAL CERTIFICATE OF THE MASSACHUSETTS HORTICULTURAL SOCIETY awarded to the garden exhibiting the best use of horticultural material in Classes 501, 502.

INTERNATIONAL FLOWER SHOW ACHIEVEMENT CERTIFICATE for the nursery exhibit making the best use of water in its design.

THE MEN'S GARDEN CLUB OF AMERICA MEDAL awarded to the garden most appropriately displaying the use of plants best suited for the Delaware Valley area. Presented by the Men's Garden Club of Delaware Valley.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY for the most successful naturalistic nursery exhibit.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY for the nursery exhibit displaying the best formal design.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY for the nursery exhibit displaying the best informal design.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY for the nursery exhibit displaying the best use of color.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY to a nursery exhibit containing the most interesting garden structure or construction.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY to the professional garden best designed for outdoor living.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY to the nursery exhibit with the best sculptured effect.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY to the nursery exhibit with the most impressive display of forced material.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVERTROPHY to the nursery exhibit displaying the best use of the space provided.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY to the nursery exhibit with the most contemporary effect.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY to the nursery exhibit expressing the most serene atmosphere.

PENNSYLVANIA HORTICULTURAL SOCIETY SILVER TROPHY to the nursery exhibit displaying the most artistic handling of natural material.

COMMERCIAL GROWER AWARDS

THE PHYLLIS M. CRAIG AWARD for the best use of flowering and/or foliage pot plants.

FLOWER SHOW AWARD OF THE SOCIETY OF AMERICAN FLORISTS to the most outstanding floral exhibit in the show.

T. A. WESTON AWARD for the best commercial exhibit of cut flowers and/or pot plants.

THE PENNSYLVANIA HORTICULTURAL SOCIETY ROSE TROPHY for the blue ribbon winners in the rose classes of the Spring Flower Show.

TRADE BOOTH AWARD OF THE PENNSYLVANIA HORTICULTURAL SOCIETY for the best staging. First, Second and Third awards.

HORTICULTURAL AWARDS

THE PENNSYLVANIA HORTICULTURAL SOCIETY RIBBON presented, if merited, to the highest scoring pot grown blue ribbon winner in the Horticultural Classes on Saturday, March 14; Tuesday, March 17 and Friday, March 20.

THE PENNSYLVANIA HORTICULTURAL SOCIETY RIBBON presented, if merited, to the highest scoring blue ribbon in a class in which a minimum of three plants are staged.

THE EDITH WILDER SCOTT AWARD given by the Four Counties Garden Club for the outstanding exhibit in the Horticultural Classes.

THE PENNSYLVANIA HORTICULTURAL SOCIETY ORCHID AWARD for the winner of Class 212.

THE EMILE H. GESCHICK MEMORIAL AWARD for a distinctive orchid display. To be judged for quality and artistic arrangement either in group or individual specimens.

AMERICAN ORCHID SOCIETY BRONZE MEDAL for the most meritorious exhibit of 25 square feet or more.

AMERICAN ORCHID SOCIETY AWARDS presented if merited.

PHILADELPHIA UNIT, HERB SOCIETY OF AMERICA AWARD to the winner of Class 211.

THE WILLIAM PENN BRANCH OF THE AMERICAN BEGONIA SOCIETY SPECIAL AWARDS for the winners in Classes 216 a and b.

THE AMERICAN ROCK GARDEN SOCIETY, DELAWARE VALLEY REGION TROPHIES for the blue ribbon winners in Classes 217, 220, 320 and 419. To retain each trophy permanently it must be won three times by the same exhibitor.

THE PHS HORTICULTURAL SWEEPSTAKES TROPHY for the accumulation of the greatest number of points in the Horticultural Classes. Trophy remains in the custody of the winner for one year.

THE PHS HORTICULTURAL SWEEPSTAKES TROPHY (RUNNER-UP). Trophy remains in the custody of the winner for one year.

ARRANGEMENT CLASS AWARDS

THE BLUE AND GOLD RIBBON OF THE GARDEN CLUB FEDERATION OF PENNSYLVANIA presented daily to the Blue Ribbon winner in the Arrangement Classes Section point scoring 95 or more.

THE BREEZY KNOLL TROPHY for the winner of Class 107. Must be won three times for permanent possession.

THE MIDDLE ATLANTIC CARNATION GROWERS' ASSOCIATION TROPHY for the winner of Class 106.

THE JACKSON AND PERKINS TROPHY for the winner of Class 110. To retain this trophy permanently, it must be won three successive years.

THE HELEN HOPE DECHERT AWARD OF THE PLANTERS GARDEN CLUB to the outstanding blue ribbon exhibit of the week in the niche classes.

THE PHILADELPHIA FLOWER ARRANGEMENT TROPHY for the most outstanding arrangement appropriate for present day living in which fresh flowers and plant material predominate.

THE MARY FEBIGER FIFE BOWL to the outstanding blue ribbon exhibit of the week in the small niche classes. Trophy remains in the custody of the winner for one year.

THE PHS ROOM AWARD for the outstanding room in the Arrangement Section of the Spring Flower Show.

THE PHS TABLE AWARD for the outstanding table in the Arrangement Section of the Spring Flower Show.

THE PENNSYLVANIA HORTICULTURAL SOCIETY FLOWER ARRANGING SWEEPSTAKES TROPHY to the individual accumulating the greatest number of points in the Arrangement Classes Section.

THE PENNSYLVANIA HORTICULTURAL SOCIETY CLUB SWEEPSTAKES AWARD in the Arrangement Classes Section to the garden club accumulating the greatest number of points.

GRAND SWEEPSTAKES AWARD

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 - Dannon Milk Products. Inc. 22-11 38th Ave. Long Island City, N.Y. Dannon yogurt & Bokoo
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- 69 Gloria DeGrood 4729 Ramona Avenue Philadelphia, Pa. Dutch import, delft, silver and chocolate
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- **Electronic Door** 15 Service Co. Route 38 Moorestown, N.J. **Garage Door Openers** and Mosquito **Control Device**
- Ellis Company 7456 Limekiln Pike Philadelphia, Pa. Genie Garage Door Openers
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- 18 **Fischer Greenhouses** Linwood, New Jersey African violets, azaleas & gesneriads
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5	International Fashions 1561 Kempton Ave. Monterey Park, Cal. 91754 Custom made Spring fashion	; 1 1	The Oriental House 240 W. 98th Street New York, N.Y. Bonsai sets; Oriental flower arrangement accessories & gifts	16	Terminix, Inc. 1701 Parkway Philadelphia, Penna. Termite & Pest control
7	International Growers' Exchange P.O. Box 397 Farmington, Michigan Flower bulbs & Plants	43, (46 (5	Ott's Greenhouses Gravel Pike Schwenksville, Penna. Plants & Hanging Daskets	28	Tinari's Greenhouses 2325 Valley Road Huntingdon Valley, Pa. African Violets & Accessories
72	Jenco 2436 N. Laramie Ave. Chicago, Ill. 60639 Hangers	41 I	Pfefferle's Ceramics 2 Woodbridge Road Gibbsboro, N.J. Ceramic articles		Laurie Todd's 62 E. Stratford Ave. Lansdowne, Pa. Horticultural Books
31	Johnson Florist 22 South 17th St. Phila., Pa. Cut flowers	12, I 13 2	Philadelphia Electric 211 S. Broad Street		Photographic Film and Supplies Village crafts
68	Leon Florist 832 Brighton Street Philadelphia, Pa. Cut flowers	50 F	Philadelphia, Penna. Garden lighting Frank Polo 7504 Woodbine		Mechanicsville Bucks Co., Pa. Pressed flower articles
1	Lord and Burnham Irvington-on-Hudson New York, N.Y. 10533	F	Philadelphia, Pa. Teflon Ware	47	Virginia Travel Council 2309 East Broad St. Richmond, Va.
	Greenhouses Meadowbrook Nurseries, Inc.] 3 	Products 3549 West Chester Pike	56	Vacation and Travel exhibit Vulcan Nationwide
	P.O. Box 87 Haddonfield, N.J. Rhododendrons, azaleas, holly, dwarf plants	49 F	Newtown Square, Pa. Therapy Chairs Reid Creations in Glass		Waterproofing Co. 3923 N. Broad St. Phila., Pa. Waterproofing contractor
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Wednesday, March 18, 4 p.m. Collingswood, New Jersey, High School

Conductor: Mr. Nelson Muschek

8 p.m. Lancaster Choral Singers

Director: Hiram Hershey

Thursday, March 19, Kensington High School Concert Choir 4 p.m.

Conductor: Miss Mardia Melroy

Workmens Circle Chorus of Philadelphia 8 p.m.

Conductor: Mr. Morris Helzner

Friday, March 20, 4 p.m. Overbrook High School

Conductor: Mr. Jack Steinberg

Springfield High School Lower School Choir 8 p.m.

Conductor: Mr. Dennis G. Lauffer

Saturday, March 21, Bishop Conwell High School, Levittown, Pa. 4 p.m.

Conductor: Sister Ann Elizabeth, O.S.F.

Roxborough High School 8 p.m.

Conductor: Mr. Benjamin Evans

Sunday, March 22, Balalaika Orchestra 4 p.m.

Conductor: Mr. Peter Kavchok

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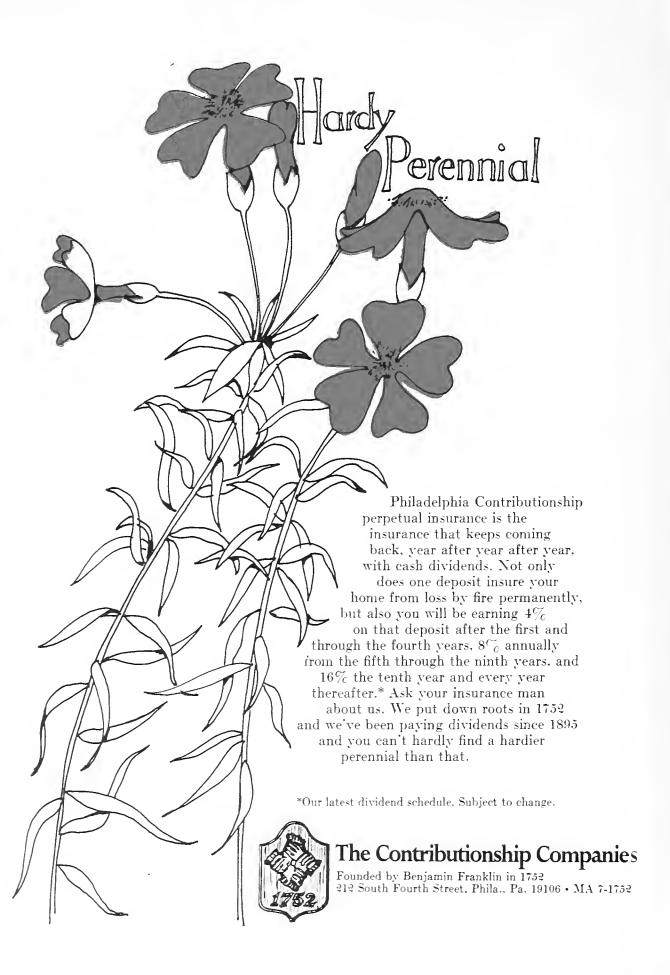
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IMPORTANT SPRING PLANT SALES IN THE DELAWARE VALLEY

ANNUAL PLANT SALE—Providence Garden Club Wednesday, May 6, 1970 10:00 a.m. to 3:30 p.m. At: Tyler Arboretum, Lima, Pa. off route 352

ANNUAL AZALEA SALE—Wayne United Methodist Men
Thursday, May 7, 1970 6:00 p.m. to 10:00 p.m.
Friday, May 8, 1970 8:00 a.m. to 8:00 p.m.
Saturday, May 9, 1970 8:00 a.m. to Noon

At: Wayne United Methodist Church, S. Wayne Ave., Wayne, Pa.

ANNUAL PLANT SALE—Temple University Department of Horticulture Tuesday, May 12, 1970 10 a.m. to 3:00 p.m. At: Ambler Campus, Ambler, Pa.

ANNUAL ROSE CARNIVAL PLANT SALE—Germantown Hospital Rose Carnival Committee Wednesday, May 13, 1970 10:00 a.m. to 3:00 p.m.

ANNUAL HERB SALE—Philadelphia Unit Herb Society of America
Thursday, May 14, 1970 10:00 a.m. to 2:00 p.m.
At: The Barn of Mr. & Mrs. George Reed, Jr., Bodine Road, Malvern off route 401

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USE The extension service

The Cooperative Extension Service of Pennsylvania State University, the University of Delaware and Rutgers, the State University of New Jersey, probably have an office in your county with a staff of County Agents and Home Economists to give you free, unbiased, up-to-date information in the broad fields of Agriculture and Home Economics.

From the Extension Office you can obtain information on flower and vegetable gardening; your lawn; soil testing, liming and fertilizing; insect and disease identification and control; home fruit management; planting and care of shrubs and trees, safe use of pesticides and many other subjects. Copies of university publications (bulletins, leaflets and mimeographs) are available free for the asking.

The County Agent is an expert with technical training and experience in the conditions and problems of the Delaware Valley. His job is to answer your questions and give you helpful advice. When he is stumped, he can call upon a corps of specialists at his State University.

4-H Club work for young people ages 9-19 is also part of the Cooperative Extension Program. There

may already be a club in your community. You can find out by calling the Extension Office. To start a 4-H Club you should have 10 or more members, (boys, girls or both) and a volunteer adult leader. Club members choose their own project and decide how often to meet and where meetings will be held. A partial list of projects in gardening includes: Annuals and Perennials, Growing Cut Flowers, Lawn Management, Strawberries, Vegetable Gardening, Landscaping and Indoor Gardening.

Each County Agent holds meetings for homeowners on subjects of interest to the amateur gardener. In addition, since 1961, the Agents in Bucks, Delaware, Chester, Montgomery and Philadelphia Counties have conducted meetings for nurserymen, greenhouse operators, garden supply dealers, landscape contractors, tree surgeons and building and grounds superintendents.

Your County Agent is as close as your telephone. Or you can stop at the Penn State Extension Service booth at the Spring Flower Show and get acquainted. Following is a listing of the addresses and telephone numbers of the Agents operating in the Delaware Valley.

COUNTY	AGENT	ADDRESS	PHONE
Bucks	R. A. Bailey	Neshaminy Manor Center Doylestown, Pa. 18901	DI 2-2800
Chester	R. A. Powers, Jr.	West Chester, Pa. 19380	696-3500
Delaware	J. J. McKeehen	Total Building Media, Pa. 19063	LO 6-0142
Montgomery	J. H. Way	400 Markley Street Norristown, Pa. 19401	277-0574
Philadelphia	W. H. White	S.E. Cor. Broad & Grange Sts. Philadelphia, Pa. 19141	HA 4-0650-51
Burlington	R. L. Washer	County Office Bldg. 49 Rancocas Road Mt. Holly, N.J. 08060	609-267-3300
Camden	R. Ruizzo	County Extension Service Bldg. 152 Ohio Avenue Clementon, N.J. 08021	609-784-100 1
Gloucester	R. Langlois	County Office Bldg. N. Delsea Drive Clayton, N.J. 08312	609-881-1200
Mercer	A. Neuberger	Court House Trenton, N.J. 08707	201-396-4593
Salem	I. Crouse	County Administration Bldg. Market Street 5alem, N.J. 08079	609-935-1360
New Castle	E. 5chabinger	University of Delaware Newark, Del. 19711	302-738-2506
Kent	G. K. Vapaa	Box 340 Dover, Del. 19901	302-736-1448
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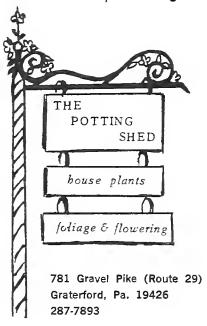
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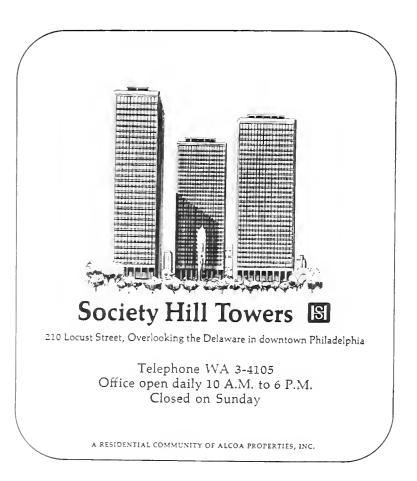
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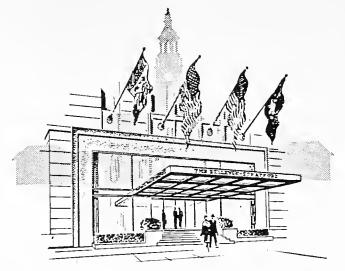






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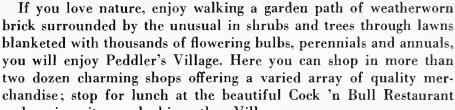
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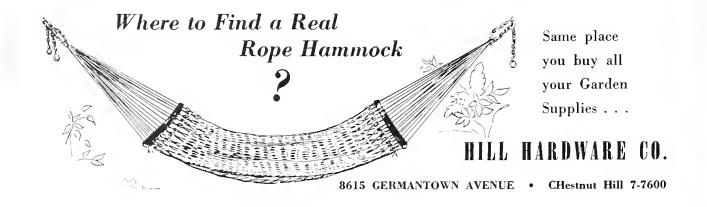
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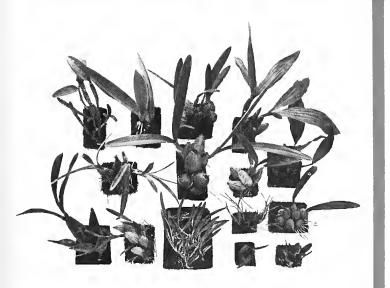
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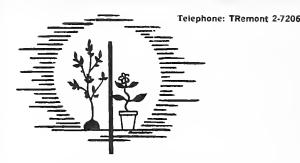
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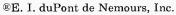
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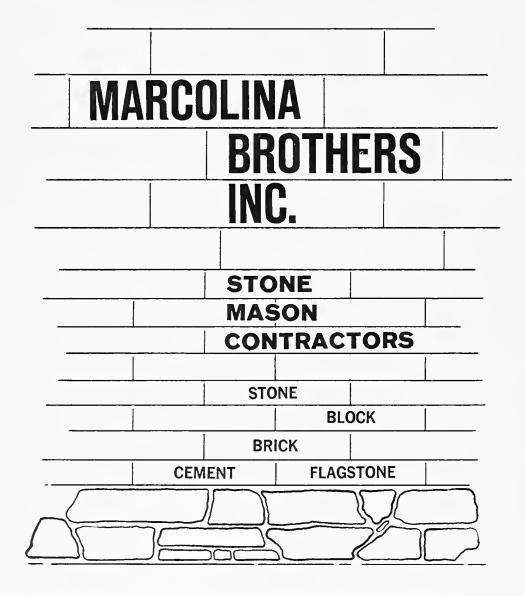




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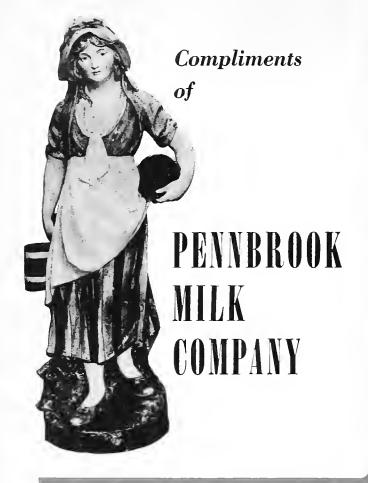
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